# STR-K670P

# SERVICE MANUAL

**Ver. 1.3 2006.05**

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*

• STR-K670P is the tuner and the amplifier section in HT-DDW670 and HTP-32DW/82DWK.

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## SPECIFICATIONS

### AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(Models of area code US only)

With 6 ohm loads, both channels driven, from 120 – 20,000 Hz; rated 60 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

#### Amplifier section

Power Output[1)]

Models of area code US
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 100 W/ch
CENTER[2)]: 100 W
SURR[2)]: 100 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 100 W

Models of area code CND
(6 ohms 1 kHz, THD 0.7%)
FRONT[2)]: 60 W/ch
CENTER[2)]: 60 W
SURR[2)]: 60 W/ch
(6 ohms 100 Hz, THD 0.7%)
SUB WOOFER[2)]: 60 W
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 100 W/ch
CENTER[2)]: 100 W
SURR[2)]: 100 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 100 W

Models of area code AEP, UK, RU, MX, SP, SP6, E51, AR
(6 ohms 1 kHz, THD 0.7%)
FRONT[2)]: 50 W/ch
CENTER[2)]: 50 W
SURR[2)]: 50 W/ch
(6 ohms 100 Hz, THD 0.7%)
SUB WOOFER[2)]: 50 W
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 85 W/ch
CENTER[2)]: 85 W
SURR[2)]: 85 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 85 W

Models of area code AUS
(6 ohms 120 Hz – 20 kHz, THD 0.09%)
FRONT[2)]: 40 W/ch
CENTER[2)]: 40 W
SURR[2)]: 40 W/ch
(6 ohms 100 Hz, THD 0.09%)
SUB WOOFER[2)]: 40 W
(6 ohms 1 kHz, THD 0.7%)
FRONT[2)]: 50 W/ch
CENTER[2)]: 50 W
SURR[2)]: 50 W/ch
(6 ohms 100 Hz, THD 0.7%)
SUB WOOFER[2)]: 50 W/ch
(6 ohms 1 kHz, THD 10%)
FRONT[2)]: 85 W/ch
CENTER[2)]: 85 W
SURR[2)]: 85 W/ch
(6 ohms 100 Hz, THD 10%)
SUB WOOFER[2)]: 85 W

– Continued on next page –

## FM STEREO FM-AM RECEIVER

**9-879-447-04**
2006E16-1
© 2006.05

**Sony Corporation**
**Home Audio Division**
**Published by Sony Techno Create Corporation**

SONY

1) Measured under the following conditions:

| Area code | Power requirements |
|---|---|
| US, CND | 120 V AC, 60 Hz |
| AEP, UK, RU, SP, SP6, AR | 230 V AC, 50 Hz |
| AUS, E51 | 240 V AC, 50 Hz |
| MX | 127 V AC, 60 Hz |

2) Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)

| | |
|---|---|
| SA-CD/CD, DVD<br>VIDEO 1, 2 | Sensitivity: 800 mV<br>Impedance: 50 k ohms |

Inputs (Digital)

| | |
|---|---|
| DVD (Coaxial) | Sensitivity: –<br>Impedance: 75 ohms |
| SA-CD/CD (Optical) | Sensitivity: –<br>Impedance: – |

Output (Analog)

| | |
|---|---|
| SUB WOOFER | Voltage: 2 V<br>Impedance: 1 k ohm |

Reproduction frequency range:
28 – 20,000 Hz

Tone

| | |
|---|---|
| Gain levels | ±6 dB, 1 dB step |

### FM tuner section

| | |
|---|---|
| Tuning range | 87.5 - 108.0 MHz |
| Antenna | FM wire antenna |
| Antenna terminals | 75 ohms, unbalanced |
| Intermediate frequency | 10.7 MHz |

### AM tuner section

Tuning range
Models of area code US, CND
With 10-kHz tuning scale: 530 - 1,710 kHz[3)]
With 9-kHz tuning scale: 531 - 1,710 kHz[3)]
Models of area code AEP, UK, RU, AUS, SP, SP6
With 9-kHz tuning scale: 531 – 1,602 kHz
Models of area code E51
With 10-kHz tuning scale: 530 - 1,610 kHz[3)]
With 9-kHz tuning scale: 531 - 1,602 kHz[3)]
Models of area code MX, AR
With 10-kHz tuning scale: 530 - 1,610 kHz

| | |
|---|---|
| Antenna | Loop antenna |
| Intermediate frequency | 450 kHz |

3) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down PRESET TUNING + or TUNING +, press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

### General

Power requirements

| Area code | Power requirements |
|---|---|
| US, CND | 120 V AC, 60 Hz |
| AEP, UK, RU | 230 V AC, 50/60 Hz |
| AUS | 240 V AC, 50 Hz |
| E15 | 120/220/240 V AC, 50/60 Hz |
| SP, SP6, AR | 220 – 230 V AC, 50/60 Hz |
| MX | 127 V AC, 60 Hz |

Power consumption

| Area code | Power consumption |
|---|---|
| US, AEP, UK, E51, AR, SP, SP6, MX, AUS, RU | 160 W |
| CND | 220 VA |

Power consumption (during standby mode)
0.2 W
Dimensions (w/h/d) (Approx.)
430 × 145 × 301.5 mm
(17 × 5 6/8 × 11 7/8 inches)
including projecting parts and controls
Mass (Approx.) 6.5 kg (14 lb 6 oz)

- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia models

Design and specifications are subject to change without notice

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

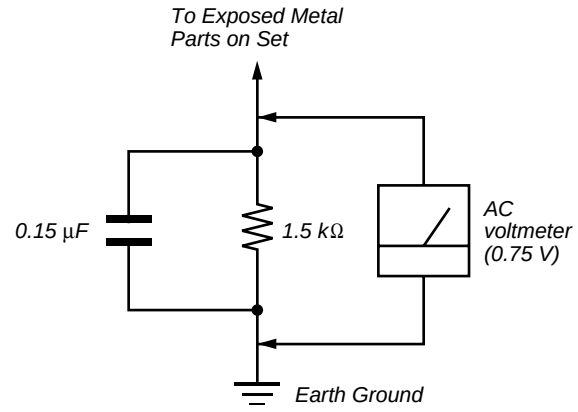


***Fig. A. Using an AC voltmeter to check AC leakage.***

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

## UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

### : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

**SAFETY-RELATED COMPONENT WARNING!!**

**COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.**

**ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.**

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## MODEL IDENTIFICATION
## – BACK PANEL –

| Model | Part No. |
|---|---|
| US model | 2-342-334-0□ |
| CND model | 2-342-334-1□ |
| AUS model | 2-342-334-2□ |
| SP, SP6 models | 2-342-334-3□ |
| MX model | 2-342-334-4□ |
| E51 model | 2-342-334-5□ |
| AEP, UK and RU models | 2-342-334-8□ |
| AR model | 2-348-134-1□ |

- Abbreviation
  AR : Argentina mdell
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia models

## SERVICING NOTE

### Note on replacement POWER AMPLIFIER IC

There are two kinds of sets by POWER AMPLIFIER IC (IC501, IC601, IC701: on MAIN board) used with this model.

Type1 : 6-700-943-01 IC uPC2581V-S
Type2 : 6-600-450-01 IC STK350-530-E

As for the set of type1 and type2, the parts on the Main board in the table below are different.
When repairing, please confirm the type name printed on IC at the beggining and use the parts corresponded to the table below.

| Ref. No. | Type1 : uPC2581V-S | Type2 : STK350-530-E | Wiring Board Location |
|---|---|---|---|
| C503 | 1-128-813-11 CERAMIC 220PF 5% 50V | 1-128-809-11 CERAMIC 100PF 5% 50V | C-4 |
| C553 | 1-128-813-11 CERAMIC 220PF 5% 50V | 1-128-809-11 CERAMIC 100PF 5% 50V | C-4 |
| C603 | 1-128-813-11 CERAMIC 220PF 5% 50V | 1-128-809-11 CERAMIC 100PF 5% 50V | C-5 |
| C653 | 1-128-813-11 CERAMIC 220PF 5% 50V | 1-128-809-11 CERAMIC 100PF 5% 50V | C-5 |
| C703 | 1-128-813-11 CERAMIC 220PF 5% 50V | 1-128-809-11 CERAMIC 100PF 5% 50V | D-3 |
| C753 | 1-128-813-11 CERAMIC 220PF 5% 50V | 1-128-809-11 CERAMIC 100PF 5% 50V | D-3 |
| IC501 | 6-700-943-01 IC UPC2581V-S | 6-600-450-01 IC STK350-530-E | C-4 |
| IC601 | 6-700-943-01 IC UPC2581V-S | 6-600-450-01 IC STK350-530-E | C-5 |
| IC701 | 6-700-943-01 IC UPC2581V-S | 6-600-450-01 IC STK350-530-E | D-2 |
| R500 | 1-247-863-91 CARBON 22K 5% 1/4W | 1-247-871-91 CARBON 47K 5% 1/4W | C-5 |
| R600 | 1-247-863-91 CARBON 22K 5% 1/4W | 1-247-871-91 CARBON 47K 5% 1/4W | C-6 |
| R700 | 1-247-863-91 CARBON 22K 5% 1/4W | 1-247-871-91 CARBON 47K 5% 1/4W | D-3 |
| R858 | JUMPER (EXCEP E51, MX) | 1-216-453-00 METAL OXIDE 270 5% 2W (EXCEP E51, MX) | D-7 |
| | 1-216-452-11 RES, METAL OXIDE FILM 180 (E51) | 1-215-889-00 METAL OXIDE 330 5% 2W (E51) | |
| | JUMPER (MX) | 1-215-888-00 METAL OXIDE 220 5% 2W (MX) | |
| R859 | 1-215-889-00 METAL OXIDE 330 5% 2W (EXCEP E51, MX) | 1-215-888-00 METAL OXIDE 220 5% 2W | D-6 |
| | 1-215-888-00 METAL OXIDE 220 5% 2W (E51) | | |
| | 1-216-453-00 METAL OXIDE 270 5% 2W (MX) | | |

SECTION 1
GENERAL

This section is extracted from instruction manual.

# Main unit

**ALPHABETICAL ORDER**

**A - H**

A.F.D. 9 (25, 26, 27)
AM 16 (18, 19, 32, 41)
DIMMER 3 (23)
DISPLAY 2 (21, 23, 39)
Display 5 (21, 23)
DVD 19 (18)
ENTER 7 (14, 32)
FM 17 (18, 19, 32, 41)
FM MODE 25 (19)

**I - O**

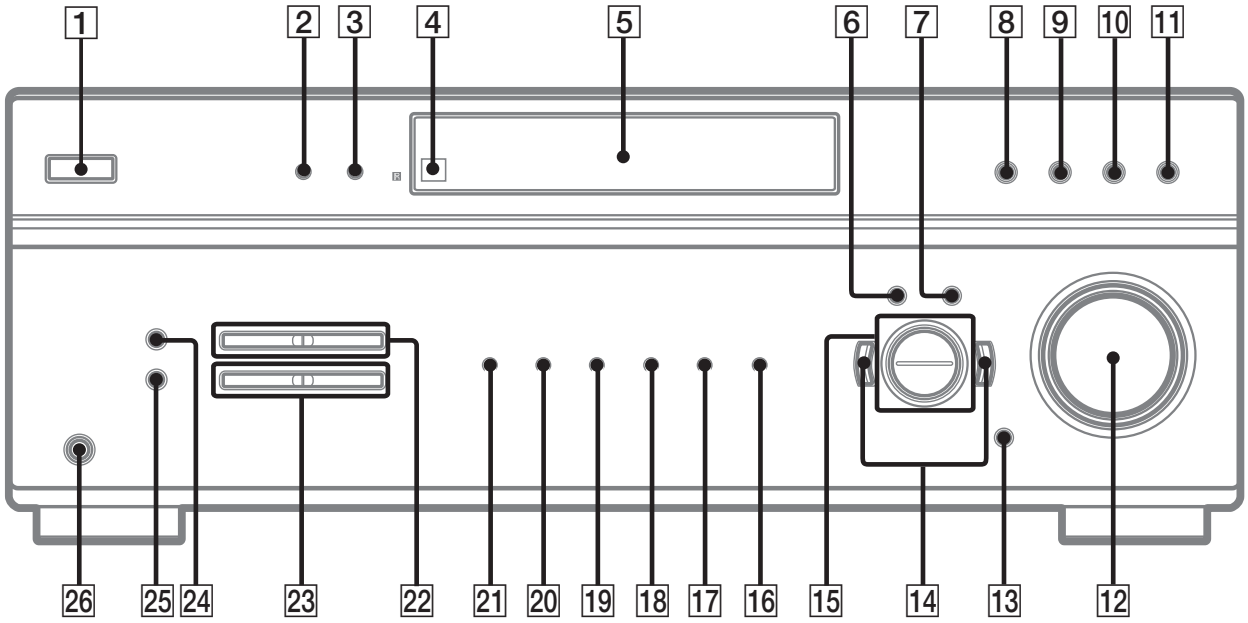
INPUT MODE 13 (28)
IR (receptor) 4 (33, 39)
MAIN MENU 6 (15, 28, 30, 32)
MASTER VOLUME –/+ 12 (14, 17, 18, 38)
MEMORY 24 (20)
MOVIE 10 (26, 27, 38)
MUSIC 11 (27, 38)

**P - Z**

PHONES (jack) 26 (18, 38)
PRESET TUNING –/+ 22 (20)
SA-CD/CD 18 (18)
TUNING –/+ 23 (19)
VIDEO 1 21 (18)
VIDEO 2 20 (18)

**NUMBERS AND SYMBOLS**

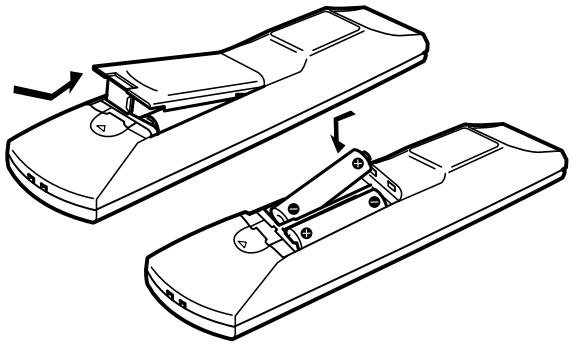
2CH 8 (25, 27, 29)
I/⏻ (power) 1 (14, 20, 29)
</> 14 (15, 28, 30, 32)
+/– 15 (15, 28, 30, 32)



# Before you use your remote

## Inserting batteries into the remote

Insert R6 (size-AA) batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor ▣ on the receiver.



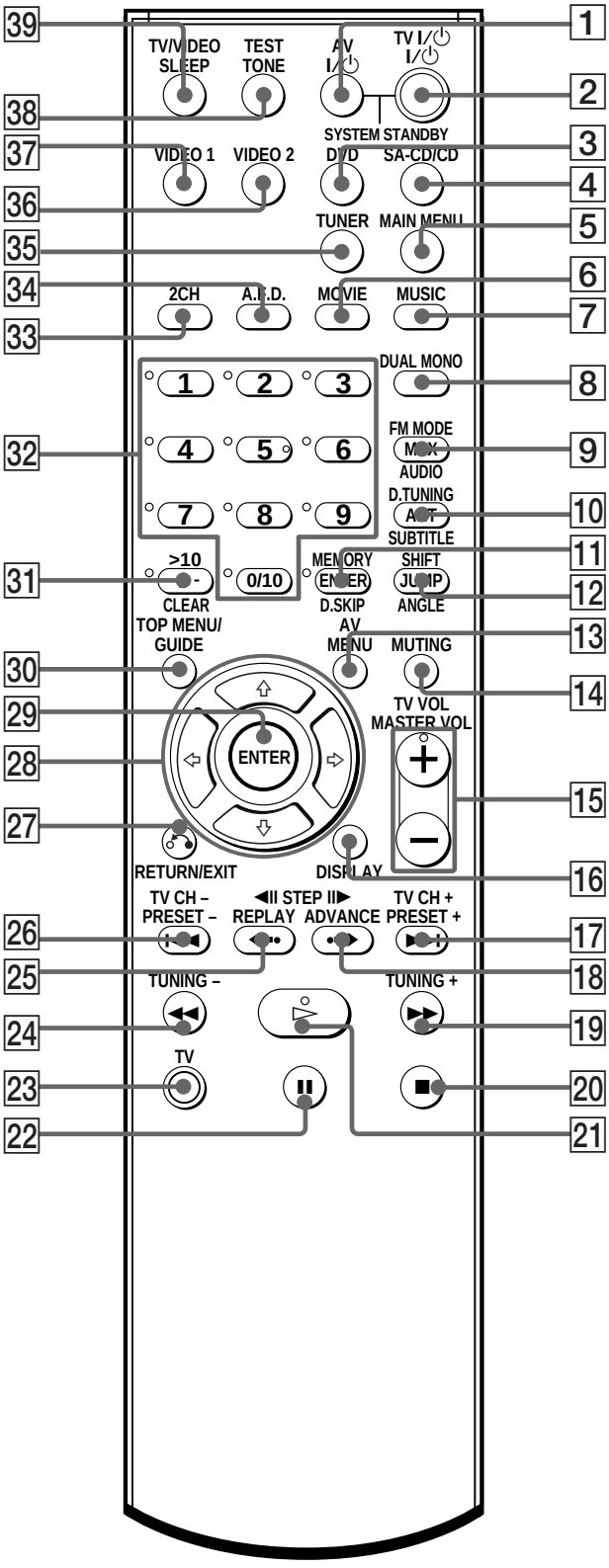
### Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the receiver, replace all batteries with new ones.

### Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

# Remote button description



The tables below show the settings of each button.

| Remote Button | Operations | Function |
|---|---|---|
| A.F.D. 34 | Receiver | Selects the decoding mode for audio sound. |
| ANGLE 12 | DVD player | Selects viewing angle or changes the angles. |
| ANT 10 | VCR/ Satellite tuner | Selects output signal from the antenna terminal: TV signal or VCR program. |
| AUDIO 9 | DVD player/ Satellite tuner | Changes the sound to Multiplex or Bilingual or Multi channel TV sound. |
| AV MENU 13 | VCR/ DVD player/ Satellite tuner | Displays menu. |
| AV I/⏻ 1 | VCR/ CD player/ DVD player/ Satellite tuner/ MD deck | Turns the audio and video components on or off. |
| CLEAR 31 | DVD player/ Satellite tuner | Clears a mistake when you press the incorrect numeric buttons or returns to continuous playback etc. |
| DISPLAY 16 | Receiver/ CD player/ VCR/ DVD player/ Satellite tuner/ MD deck | Selects information displayed on the TV screen. |
| D.SKIP 11 | CD player/ DVD player | Skips discs (multi-disc changer only). |
| D.TUNING 10 | Receiver | Enters direct tuning mode. |
| DUAL MONO 8 | Receiver | Selects the language you want during digital broadcast. |
| DVD 3 | Receiver | To watch DVD. |
| ENTER 11 | TV/VCR/ Satellite tuner | After selecting a channel, disc or track using the numeric buttons, press to enter the value. |
| ENTER 29 | Receiver/ VCR/ DVD player/ Satellite tuner/ CD player/ MD deck | Enters the selection. |
| FM MODE 9 | Receiver | Selects FM monaural or stereo reception. |
| JUMP 12 | Satellite tuner | Toggles between the previous and the current channels. |
| MAIN MENU 5 | Receiver | Selects the menu of the receiver. |
| MASTER VOL +/– 15 | Receiver/TV | Adjusts the master volume of the receiver. |
| MEMORY 11 | Receiver | Stores the radio stations. |
| MOVIE 6 | Receiver | Selects the pre-programmed sound fields for movie. |
| MPX 9 | VCR | Select main or sub language. |
| MUSIC 7 | Receiver | Selects the pre-programmed sound fields for music. |
| MUTING 14 | Receiver | Mutes the sound from the receiver. |
| PRESET +/– 17 26 | Receiver | Selects preset stations. |
| | TV/VCR/ Satellite tuner | Select preset channel. |
| RETURN/ EXIT 27 | DVD player | Returns to the previous menu or exits the menu. |
| | Satellite tuner | Exits the menu. |
| SA-CD/CD 4 | Receiver | To listen to Super Audio CD or compact disc. |
| SHIFT 12 | Receiver | Selects a memory page for presetting radio stations or tuning to preset stations. |

| Remote Button | Operations | Function |
|---|---|---|
| SLEEP 39 | Receiver | Activates the sleep function and the duration which the receiver turns off automatically. |
| SUBTITLE 10 | DVD player | Changes the subtitles. |
| SYSTEM STANDBY (Press AV I/⏻ 1 and I/⏻ 2 at the same time) | Receiver/ TV/VCR/ CD player/ DVD player/ Satellite tuner/ MD deck/ DAT deck | Turns off the receiver and other Sony audio/ video components. |
| TEST TONE 38 | Receiver | Outputs test tone. |
| TOP MENU/ GUIDE 30 | DVD player | Displays DVD title. |
| | Satellite tuner | Display guide menu. |
| TUNER 35 | Receiver | To listen to radio programs. |
| TUNING+/– 19 24 | Receiver | Scans radio station. |
| TV 23 | TV | To watch TV programs. |
| TV CH +/– 17 26 | TV | Selects preset TV channels. |
| TV/VIDEO 39 | TV | Selects input signal: TV input or video input. |
| TV VOL +/– 15 | TV | Adjusts the volume of the TV. |
| TV I/⏻ 2 | TV | Turns the TV on or off. |
| VIDEO 1 37 | Receiver | To watch VCR. (VTR mode 3) |
| VIDEO 2 36 | Receiver | To watch VCR. (VTR mode 1) |

| Remote Button | Operations | Function |
|---|---|---|
| 1-9 and 0/10 32 | Receiver | Use with SHIFT to preset radio station or tuning to preset stations and with D.TUNING for direct tuning. |
| | CD player/ DVD player/ MD deck | Selects track numbers. 0/10 selects track 10. |
| | TV/ VCR/ Satellite tuner | Selects channel numbers. |
| 2CH 33 | Receiver | Selects 2CH STEREO mode. |
| >10 31 | VCR/ CD player/ DVD player/ Satellite tuner/ MD deck | Selects track numbers over 10. |
| -/-- 31 | TV | Selects the channel entry mode, either one or two digit. |
| I/⏻ 2 | Receiver | Turns the receiver on or off. |
| ◀II STEP II▶ REPLAY ←•/ ADVANCE •→ 25 18 | VCR/ DVD player | Replay the previous scene or fast forward the current scene. |
| I◀◀/▶▶I 26 17 | VCR/ CD player/ DVD player | Skips tracks. |
| ◀◀/▶▶ 24 19 | DVD player | Searches tracks in the forward or backward direction. |
| | VCR/ CD player/ MD deck/ Tape deck | Fastforwards or rewinds. |
| ▷ 21 | VCR/ CD player/ DVD player/ MD deck/ Tape deck | Starts playback. |

| Remote Button | Operations | Function |
|---|---|---|
| ⏸ 22 | VCR/ CD player/ DVD player/ MD deck/ Tape deck | Pauses playback or recording. (Also starts recording with components in recording standby.) |
| ■ 20 | VCR/ CD player/ DVD player/ MD deck/ Tape deck | Stops playback. |
| ↩ 27 | DVD player | Returns to the previous menu or exits the menu. |
| ↑/↓ 28 | Receiver | Selects a menu item. |
| ←/→ 28 | Receiver | Adjusts or changes the setting. |
| ↑/↓/←/→ 28 | VCR/ Satellite tuner/ DVD player | Selects a menu item. |

**Notes**

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component the above operation may not be possible or may operate differently than described.
- When you press input buttons (VIDEO 1, VIDEO 2 or DVD), the input mode of the TV might not switch to the corresponding input mode that you want. In this case, press TV/VIDEO button to switch the input mode of the TV.
- To activate the buttons with orange printing, press TV and the button you want simultaneously.

# Changing the factory setting of an input button

If the factory settings of the input buttons do not match your system components, you can change them. For example, if you have a CD player and you do not have a DVD player, you can assign the DVD button to your CD player.

**1 Hold down the input button whose input you want to change (for example, DVD).**

**2 Press the corresponding button of the component you want to assign to the input button (for example, 5 – CD player).**

The following buttons are assigned to select the input:

| To operate | Press |
|---|---|
| VCR (command mode VTR 3*) | 1 |
| VCR (command mode VTR 2*) | 2 |
| DVD player or DVD recorder (command mode DVD 1) | 3 |
| DVD recorder (command mode DVD 3) | 4 |
| CD player | 5 |
| MD deck | 6 |
| Tape deck B | 7 |
| Tuner (this receiver) | 8 |
| DSS (Digital Satellite Receiver) | 9 |
| DCS (Digital CS Tuner) | 0/10 |
| BSD (Digital BS Tuner) | -/-- |

*Sony VCRs are operated with a VTR 2 or 3 setting. These correspond to 8 mm and VHS respectively.

Now you can use the DVD button to control the CD player.

## To reset a button to its factory setting

Repeat the above procedure.

## To reset all the input buttons to their factory setting

Press I/⏻, TEST TONE and MASTER VOL – at the same time.

# SECTION 2
# TEST MODE

## FACTORY PRESET MODE

- All preset contents are reset to the default setting.
- Procedure:
  While depressing the PRESET TUNING– and the DIMMER buttons simultaneously, press the power I/⏻ button to turn on the main power. The message "FACTORY" appears and switch off the set.
  While depressing the PRESET TUNING– and the DIMMER buttons simultaneously, press the power I/⏻ button again. The message "FACTORY" appears and the present contents are reset to the default values.

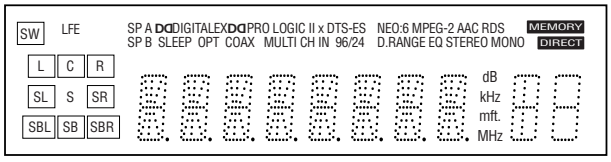
## AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

- Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
- Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING+ button, press the power I/⏻ button to turn on the main power. Either the message "9 k STEP" or "10 k STEP" appears. Select the desired step.
  This mode is only for US, Canadian, Australian and E models.

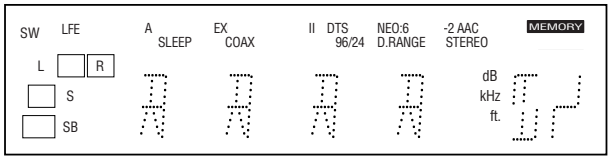
## FLUORESCENT INDICATOR TUBE TEST MODE

- All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
- Procedure:
  While depressing the PRESET TUNING– and the AM buttons simultaneously, press the power I/⏻ button to turn on the main power.

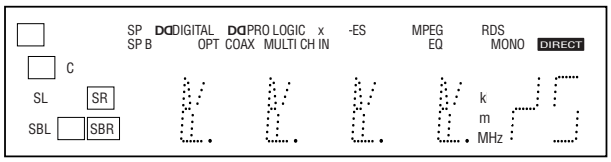
1. All segments turn on.




2. Press the VIDEO 1 button, confirm display.




3. Press the VIDEO 1 button, confirm display




4. Press the VIDEO 1 button, All segments turn off.

5. Every pressing of the VIDEO 1 button turns on each segment one after another in the same order.
   (Not only the VIDEO 1 button, but also the other buttons such as VIDEO 2, DVD, SA-CD/CD, FM and AM can be used.)

## SOUND FIELD CLEAR MODE

- The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
- Procedure:
  While depressing the 2CH button, press the power I/⏻ button to turn on the main power.
  The message "SF. CLR." appears and initialization is performed.

## SOFTWARE VERSION DISPLAY MODE

- The software version is displayed.
- Procedure:
  While depressing the PRESET TUNING– and the < buttons simultaneously, press the power I/⏻ button to turn on the main power. The model name, destination and the software version are displayed.

## KEY CHECK MODE

- Button check
- Procedure:
  While depressing the A.F.D and the < buttons simultaneously, press the power I/⏻ button to turn on the main power.
  "REST 25" appears.
  Every pressing of any button other than I/⏻ counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.
  When MASTER VOLUME is rotated in clockwise direction, "VOL MIN", "VOL 1" to "VOL 48", "VOL MAX" appear.

## AUTO BETICAL MODE

- This mode is installed in the Europe models only. When this mode is used, the receiver scans the broadcasts that can be received by the tuner, and sets up the broadcasts. Be sure to start scanning after connecting the antenna.
- Procedure:

1. Check that the antenna is connected.
2. Press the I/⏻ button to turn on the power while pressing the MEMORY button.

## CHANGE COMMON MODE

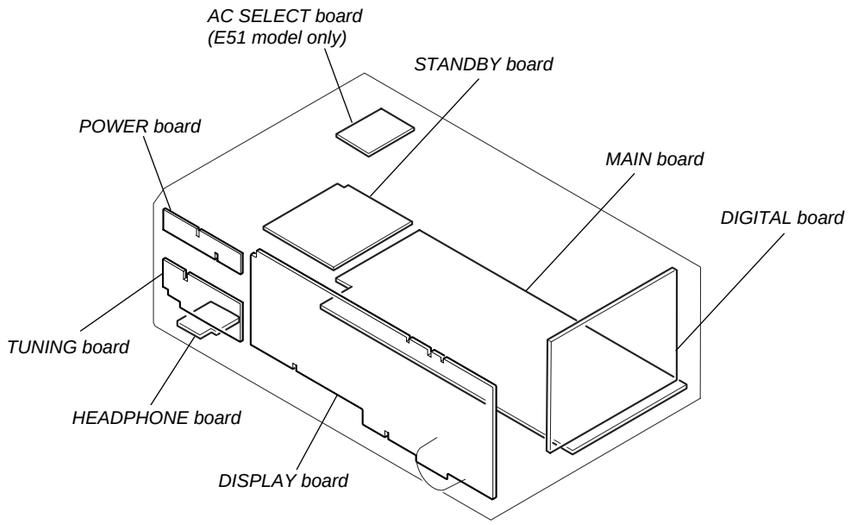
- This mode is command mode changed to AV 1 or AV2.
- Procedure:
  While depressing the ENTER button, press the power I/⏻ button to turn on the main power.
  Either the message "C.MODE.AV 1" or "C.MODE.AV 2" appears.

## SHIPMENT MODE

- All preset contents are reset to the default setting.
- Procedure:
  While depressing the A.F.D. and the AM buttons simultaneously, press the power I/⏻ button to turn on the main power.
  "CLEARED" appears.

# SECTION 3
# DIAGRAMS

## • Circuit Boards Location




**THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.**
**(In addition to this, the necessary note is printed in each block.)**

**For Schematic Diagrams.**
**Note:**

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

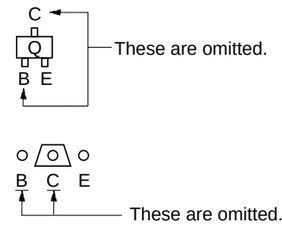
| **Note:** | **Note:** |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié. |

- : B+ Line.
- : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : ANALOG
  : DIGITAL
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia models

**For Printed Wiring Boards.**
**Note:**

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

- Indication of transistor.

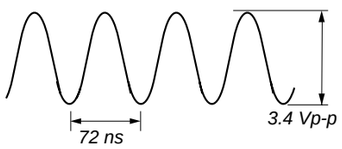



| Caution: | |
|---|---|
| Pattern face side: (Side A) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Side B) | Parts on the parts face side seen from the parts face are indicated. |

## • Waveforms

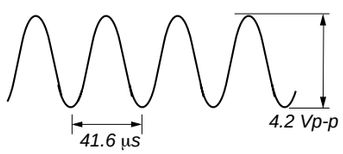
**– DIGITAL Board –**

**① IC1501 ⑨ (MCLK1)**



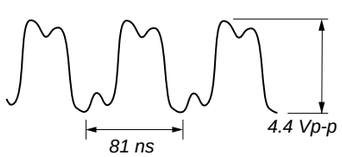

1 V/DIV, 40 ns/DIV

**② IC1101 ㉝ (X1)**




1 V/DIV, 20 ns/DIV

**③ IC1301 ㉒ (XIN)**




1 V/DIV, 40 ns/DIV

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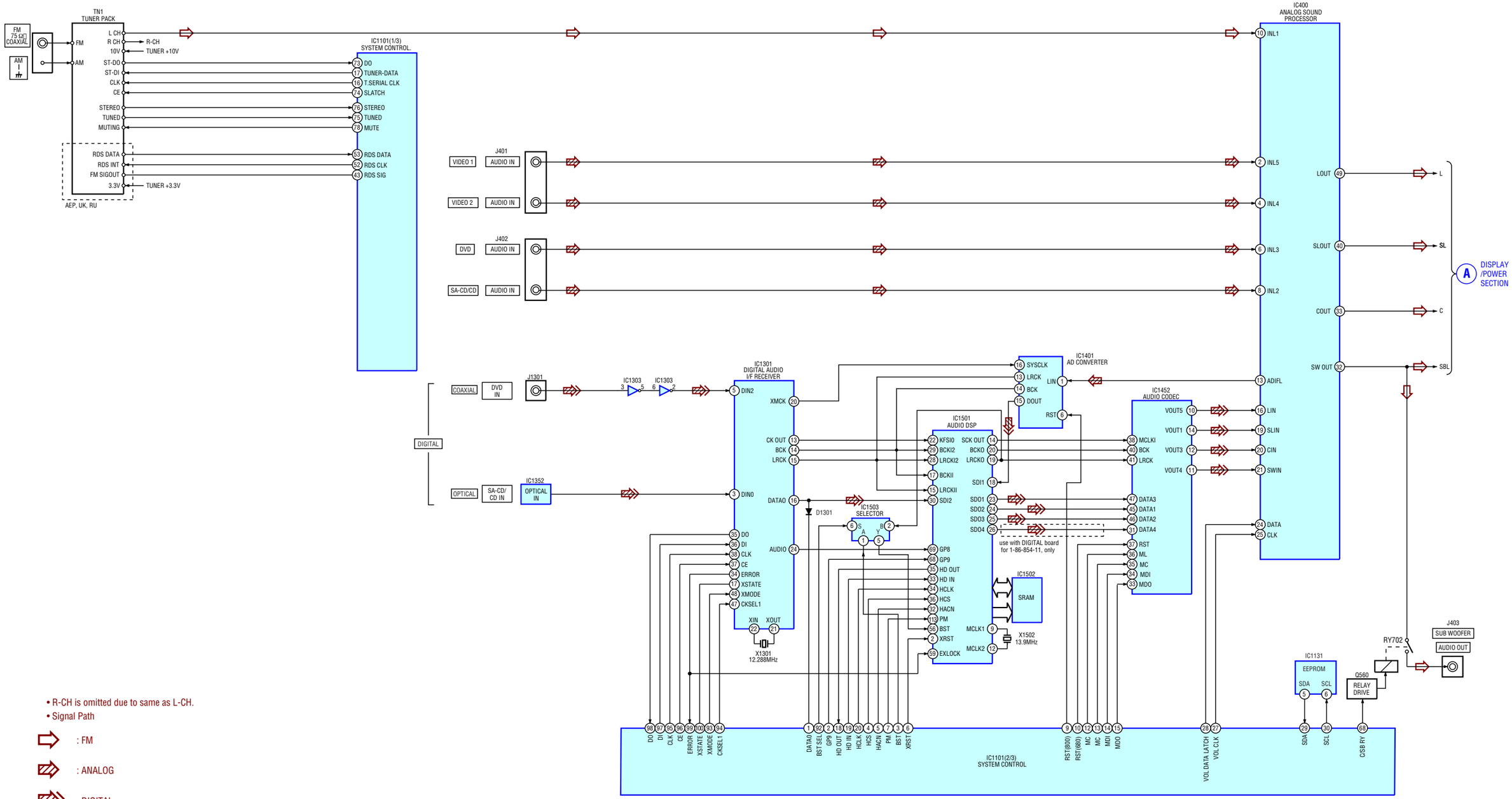
## 3-1. BLOCK DIAGRAM — MAIN SECTION —



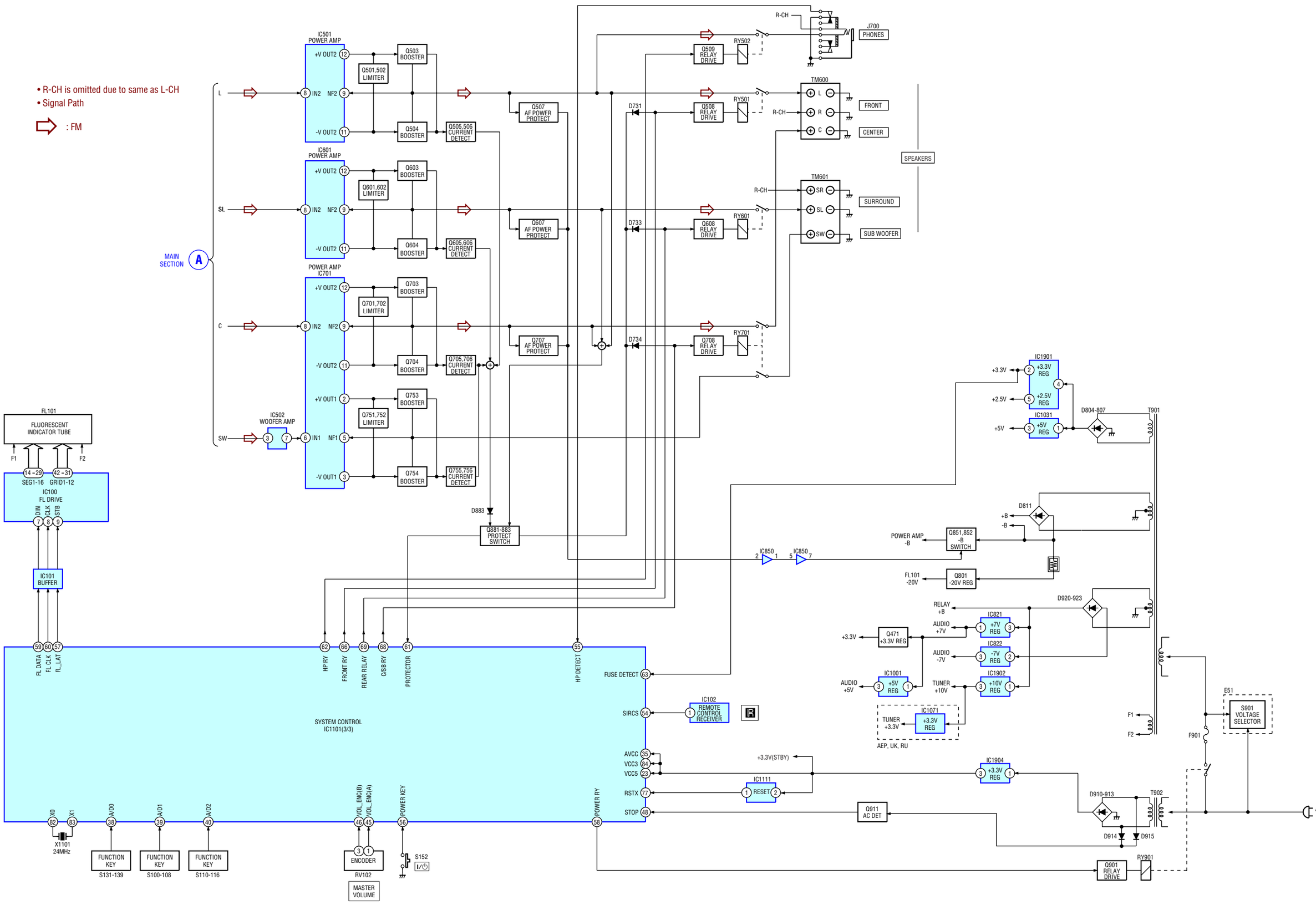

- R-CH is omitted due to same as L-CH.
- Signal Path

: FM

: ANALOG

: DIGITAL

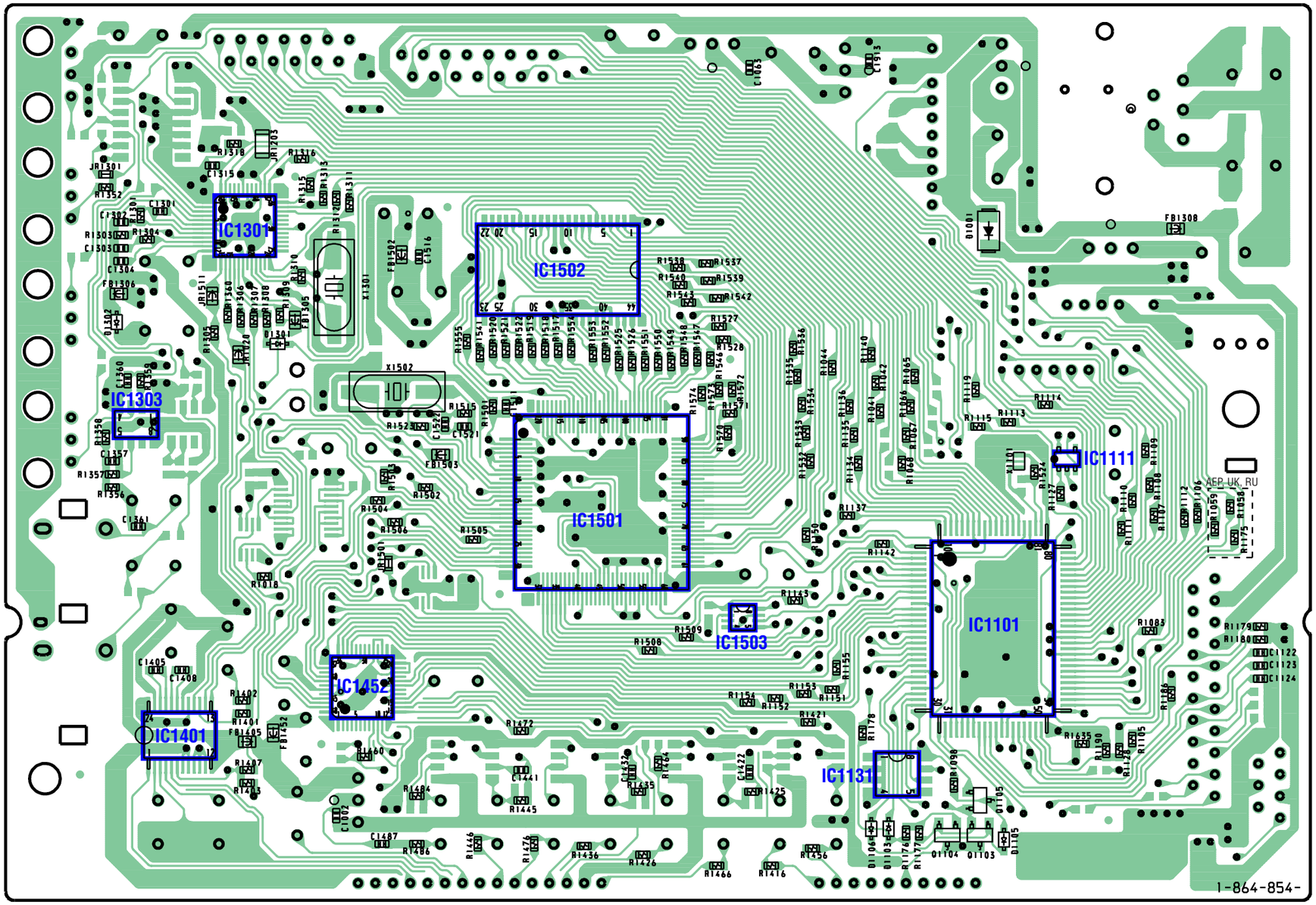
## 3-2. BLOCK DIAGRAM — DISPLAY/POWER SECTION —



## 3-3. PRINTED WIRING BOARD — DIGITAL BOARD (SIDE A) —

• :Uses unleaded solder. • See page 11 for Circuit Boards Location.

【DIGITAL BOARD】(SIDE A)

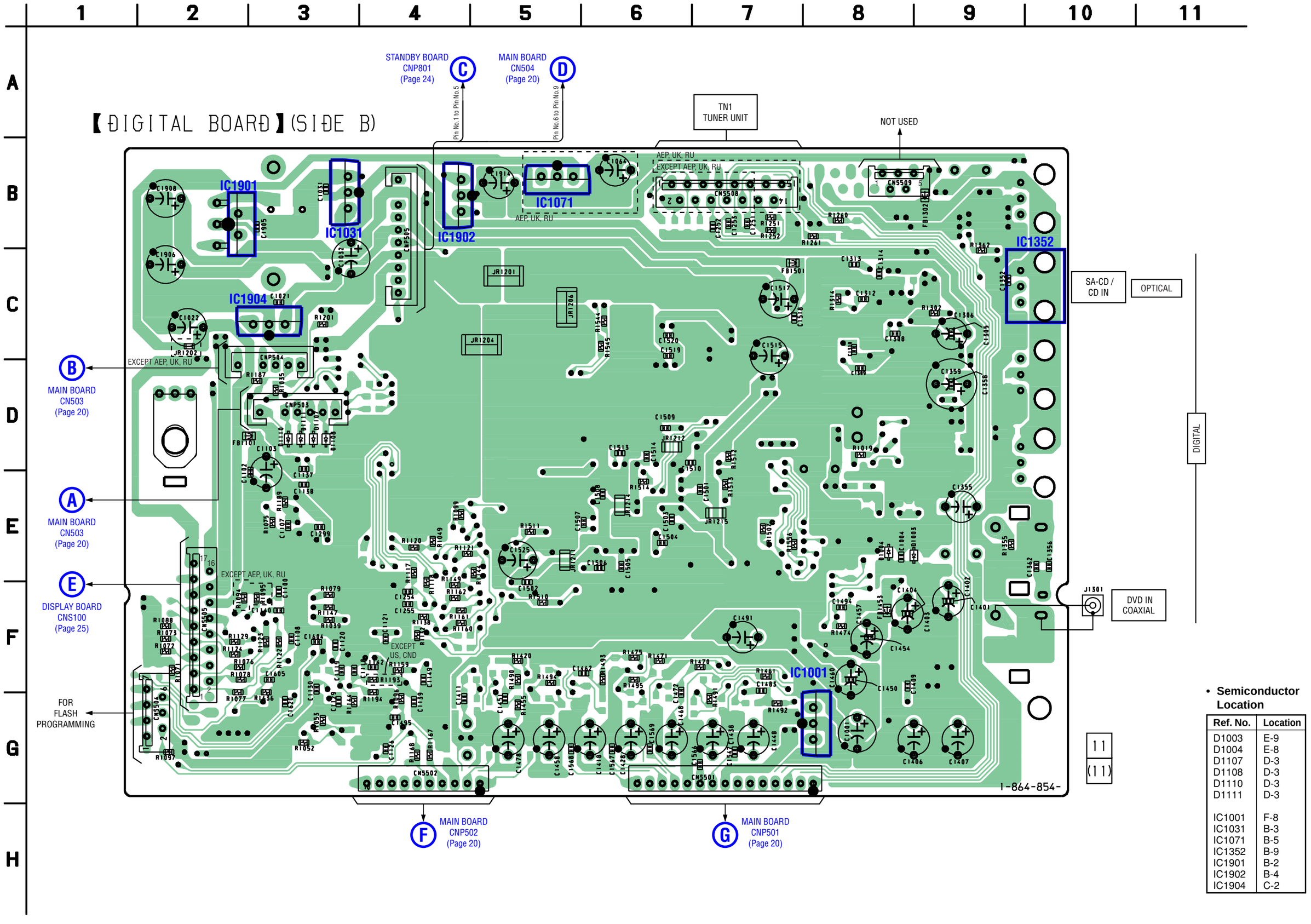



- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D1001 | C-8 |
| D1103 | G-7 |
| D1105 | G-8 |
| D1106 | G-7 |
| D1301 | D-3 |
| D1302 | D-2 |
| IC1101 | F-8 |
| IC1111 | D-9 |
| IC1131 | G-7 |
| IC1301 | C-3 |
| IC1303 | D-2 |
| IC1401 | F-2 |
| IC1452 | F-4 |
| IC1501 | E-5 |
| IC1502 | C-5 |
| IC1503 | F-6 |
| Q1103 | G-8 |
| Q1104 | G-8 |
| Q1105 | G-8 |

## 3-4. PRINTED WIRING BOARD — DIGITAL BOARD (SIDE B) —

• :Uses unleaded solder. • See page 11 for Circuit Boards Location.

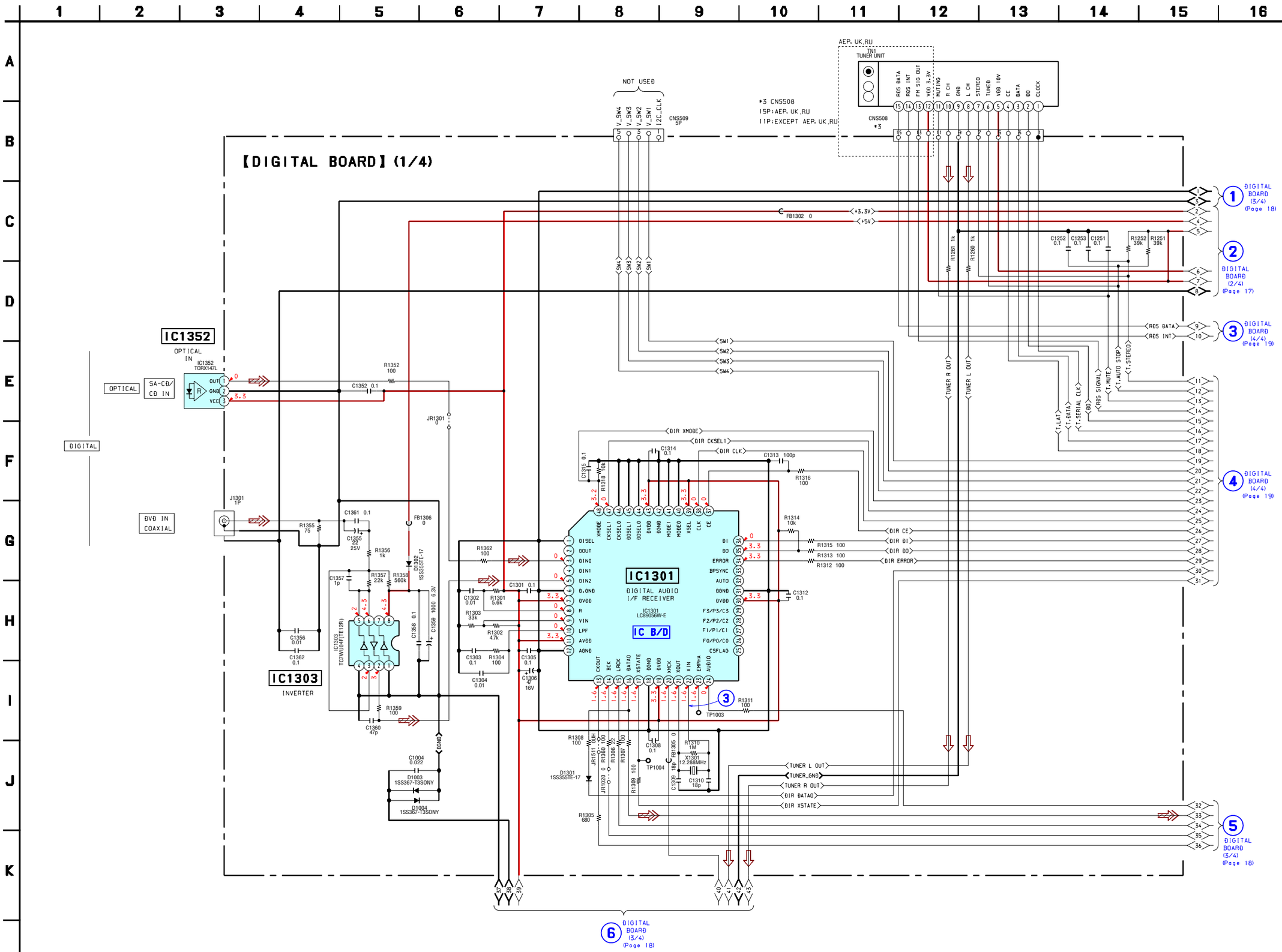



• **Semiconductor Location**

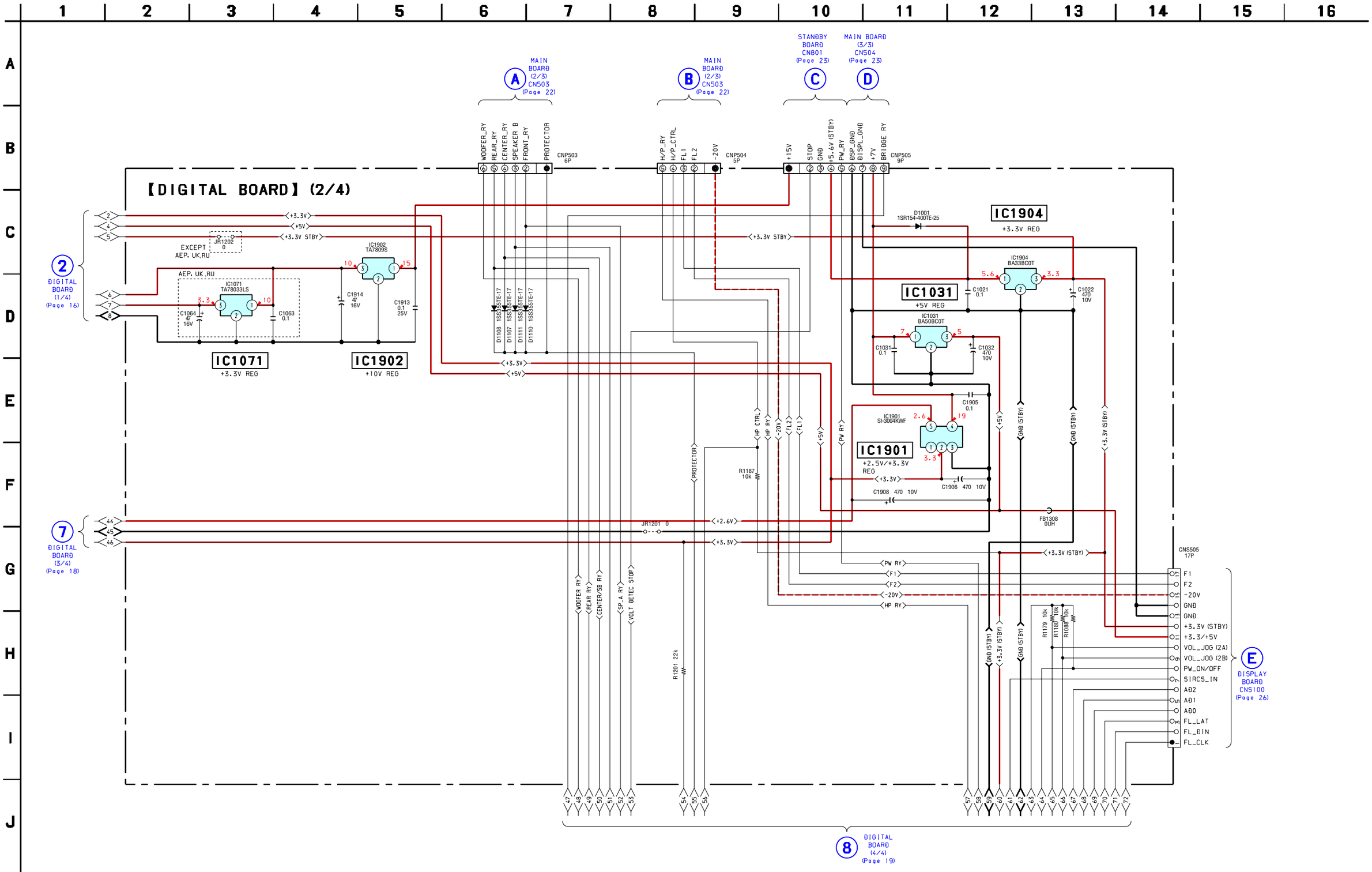
| Ref. No. | Location |
|---|---|
| D1003 | E-9 |
| D1004 | E-8 |
| D1107 | D-3 |
| D1108 | D-3 |
| D1110 | D-3 |
| D1111 | D-3 |
| IC1001 | F-8 |
| IC1031 | B-3 |
| IC1071 | B-5 |
| IC1352 | B-9 |
| IC1901 | B-2 |
| IC1902 | B-4 |
| IC1904 | C-2 |

## 3-5. SCHEMATIC DIAGRAM — DIGITAL BOARD (1/4) —

• See page 11 for Waveform. • See page 27 for IC Block Diagram.

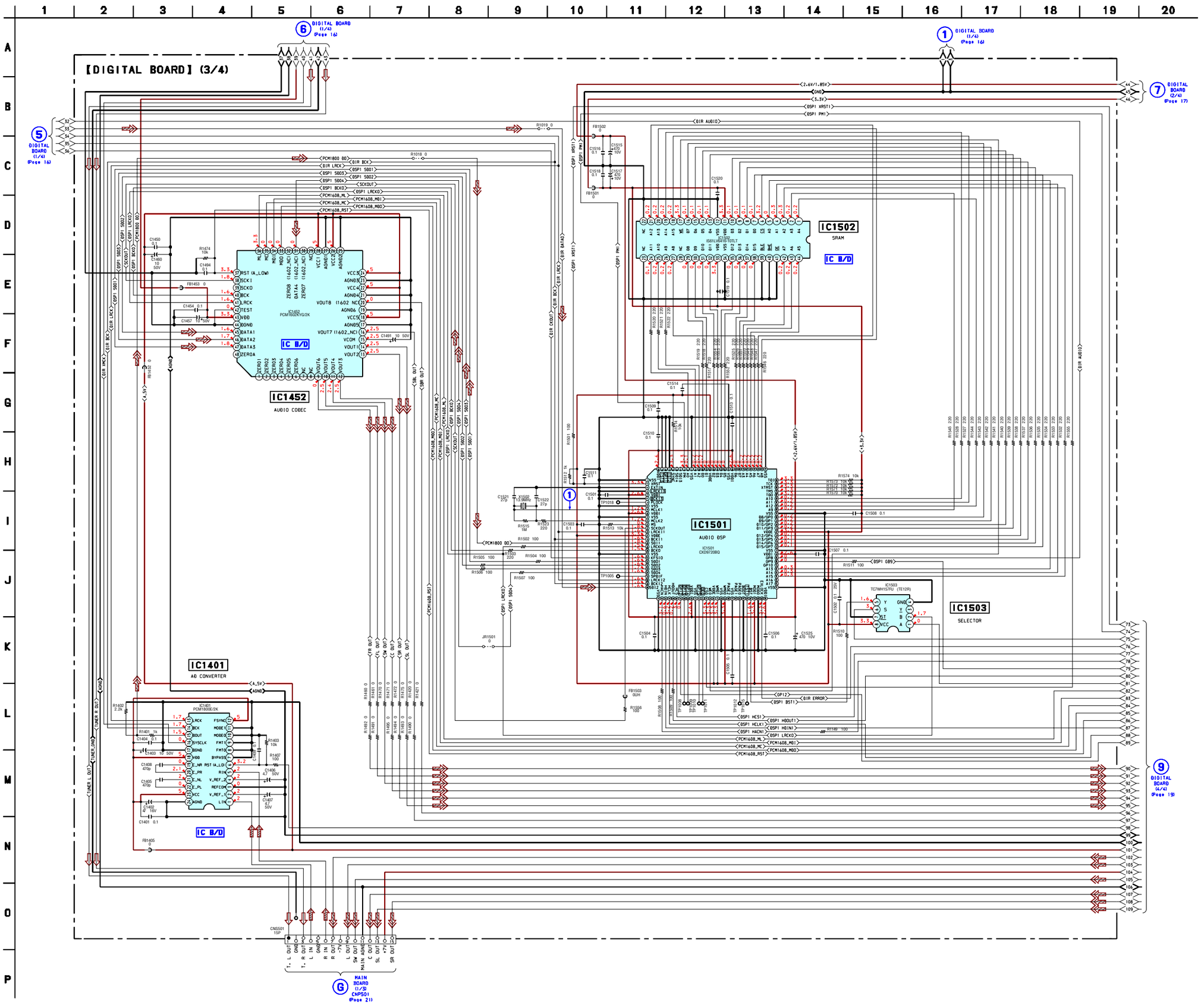


## 3-6. SCHEMATIC DIAGRAM — DIGITAL BOARD (2/4) —



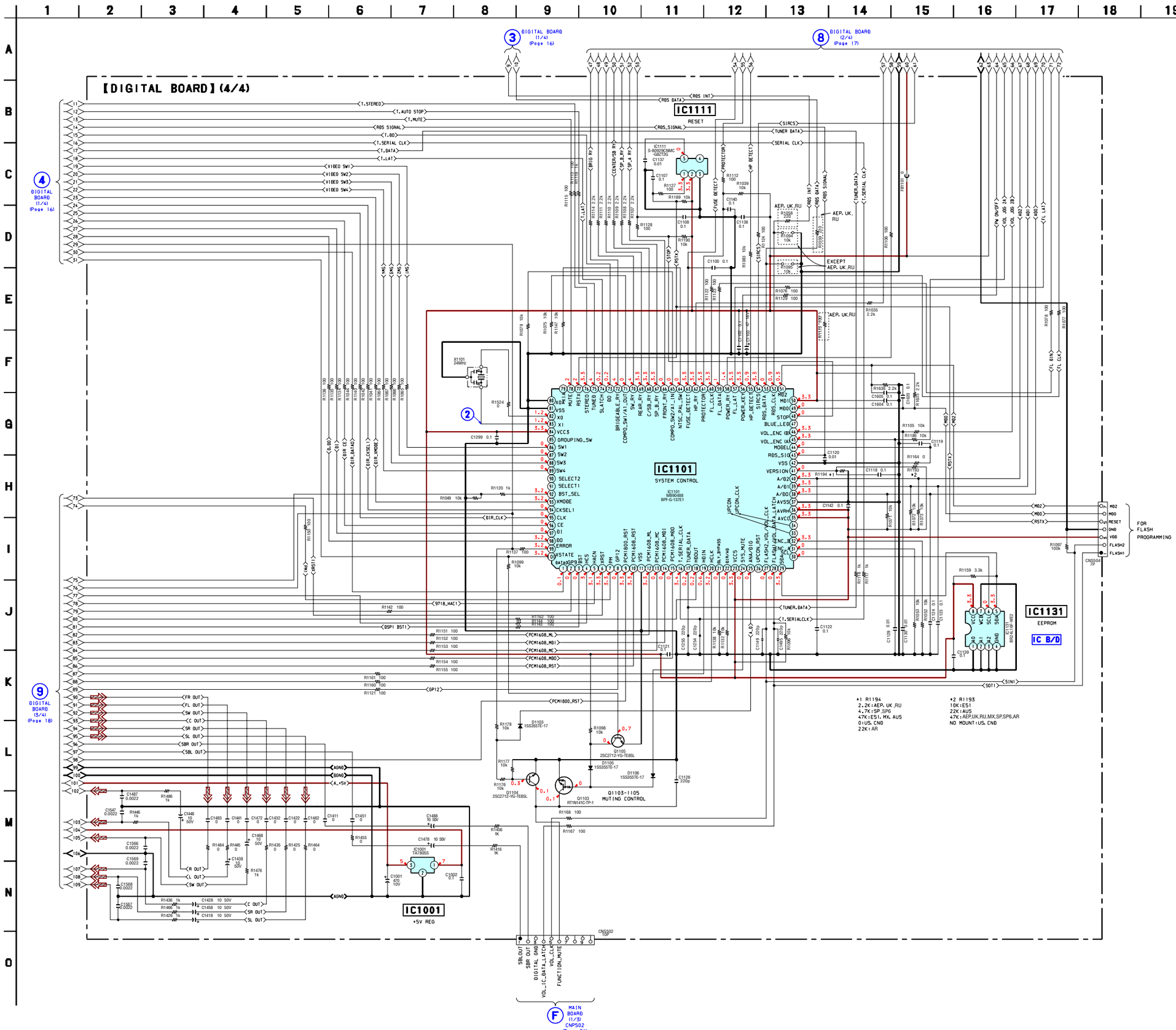
## 3-7. SCHEMATIC DIAGRAM — DIGITAL BOARD (3/4) —

• See page 11 for Waveform. • See page 28, 29 for IC Block Diagrams.



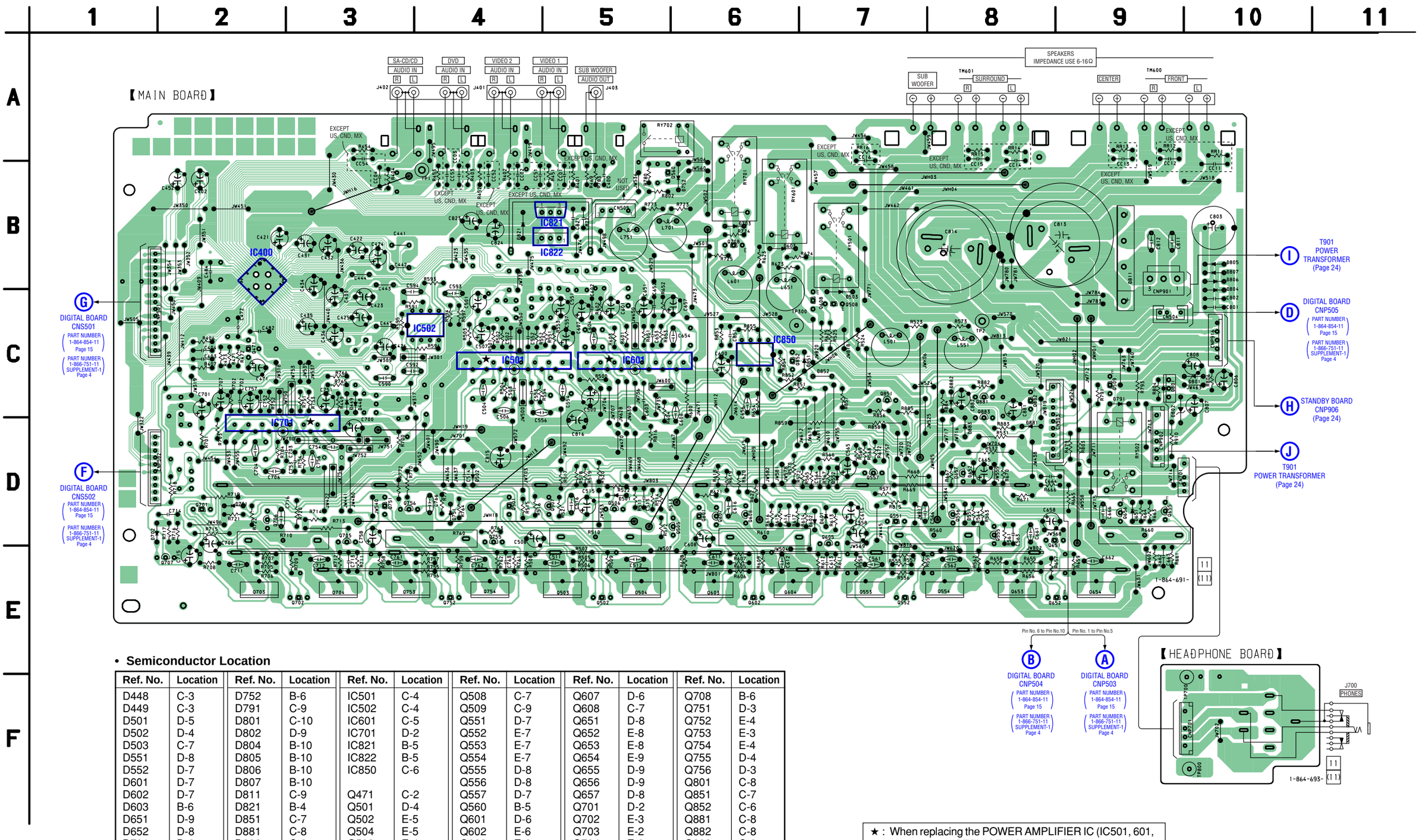
## 3-8. SCHEMATIC DIAGRAM — DIGITAL BOARD (4/4) —

• See page 11 for Waveform. • See page 27 for IC Block Diagram. • See page 31 for IC Pin Function Description.



## 3-9. PRINTED WIRING BOARD — MAIN SECTION —

• :Uses unleaded solder. • See page 11 for Circuit Boards Location.

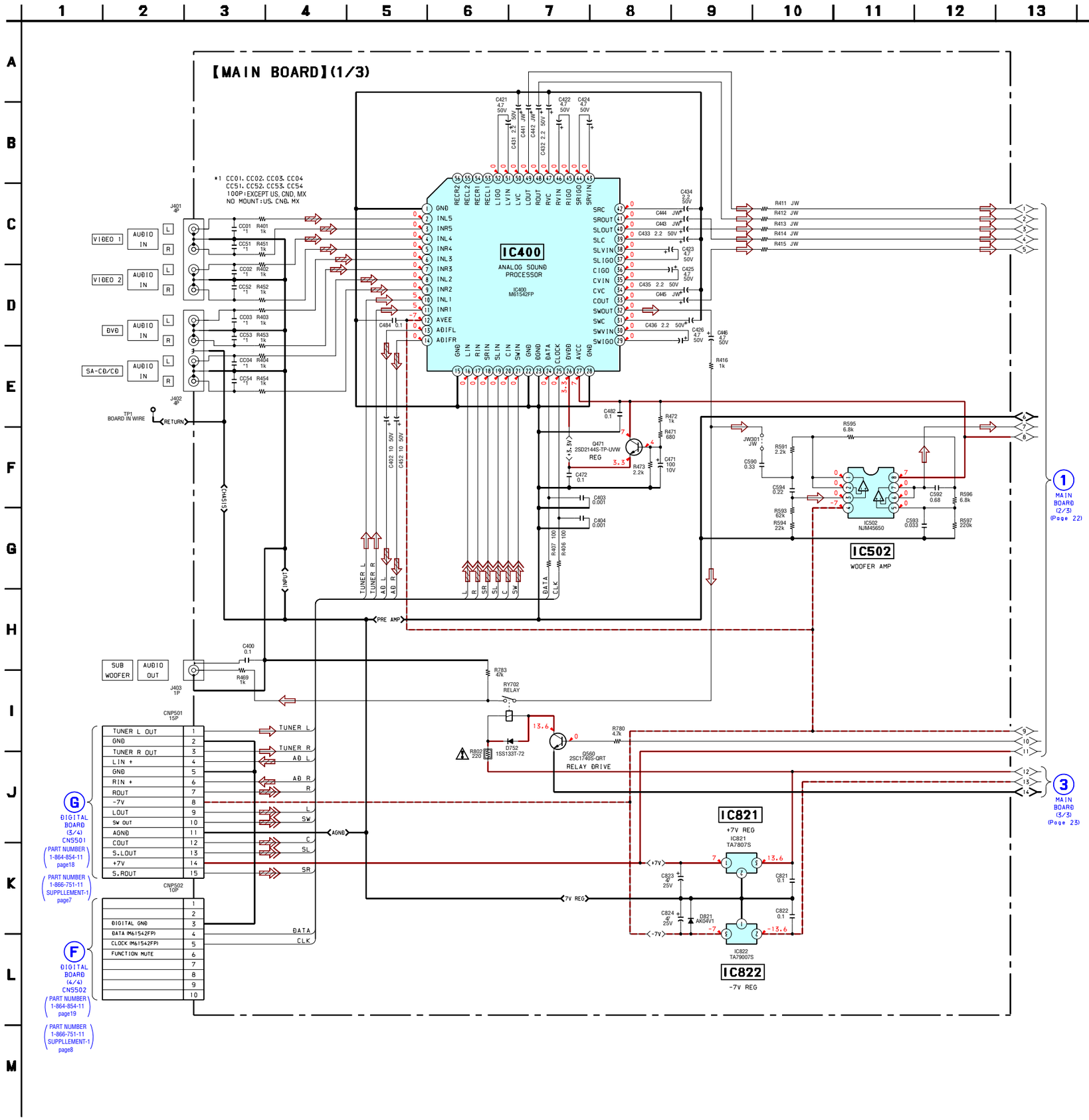



• **Semiconductor Location**

| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D448 | C-3 | D752 | B-6 | IC501 | C-4 | Q508 | C-7 | Q607 | D-6 | Q708 | B-6 |
| D449 | C-3 | D791 | C-9 | IC502 | C-4 | Q509 | C-9 | Q608 | C-7 | Q751 | D-3 |
| D501 | D-5 | D801 | C-10 | IC601 | C-5 | Q551 | D-7 | Q651 | D-8 | Q752 | E-4 |
| D502 | D-4 | D802 | D-9 | IC701 | D-2 | Q552 | E-7 | Q652 | E-8 | Q753 | E-3 |
| D503 | C-7 | D804 | B-10 | IC821 | B-5 | Q553 | E-7 | Q653 | E-8 | Q754 | E-4 |
| D551 | D-8 | D805 | B-10 | IC822 | B-5 | Q554 | E-7 | Q654 | E-9 | Q755 | D-4 |
| D552 | D-7 | D806 | B-10 | IC850 | C-6 | Q555 | D-8 | Q655 | D-9 | Q756 | D-3 |
| D601 | D-7 | D807 | B-10 | | | Q556 | D-8 | Q656 | D-9 | Q801 | C-8 |
| D602 | D-7 | D811 | C-9 | Q471 | C-2 | Q557 | D-7 | Q657 | D-8 | Q851 | C-7 |
| D603 | B-6 | D821 | B-4 | Q501 | D-4 | Q560 | B-5 | Q701 | D-2 | Q852 | C-6 |
| D651 | D-9 | D851 | C-7 | Q502 | E-5 | Q601 | D-6 | Q702 | E-3 | Q881 | C-8 |
| D652 | D-8 | D881 | C-8 | Q504 | E-5 | Q602 | E-6 | Q703 | E-2 | Q882 | C-8 |
| D701 | D-2 | D882 | C-8 | Q503 | E-4 | Q603 | E-6 | Q704 | E-3 | Q883 | C-8 |
| D702 | D-1 | D883 | D-8 | Q505 | D-6 | Q604 | E-6 | Q705 | D-3 | | |
| D703 | B-6 | | | Q506 | D-5 | Q605 | D-7 | Q706 | D-2 | | |
| D751 | D-4 | IC400 | B-2 | Q507 | D-5 | Q606 | D-6 | Q707 | E-2 | | |

★ : When replacing the POWER AMPLIFIER IC (IC501, 601, 701), refer to SERVICE NOTE “ NOTE on replacement POWER AMPLIFIER IC ” (Page 4)

## 3-10. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —



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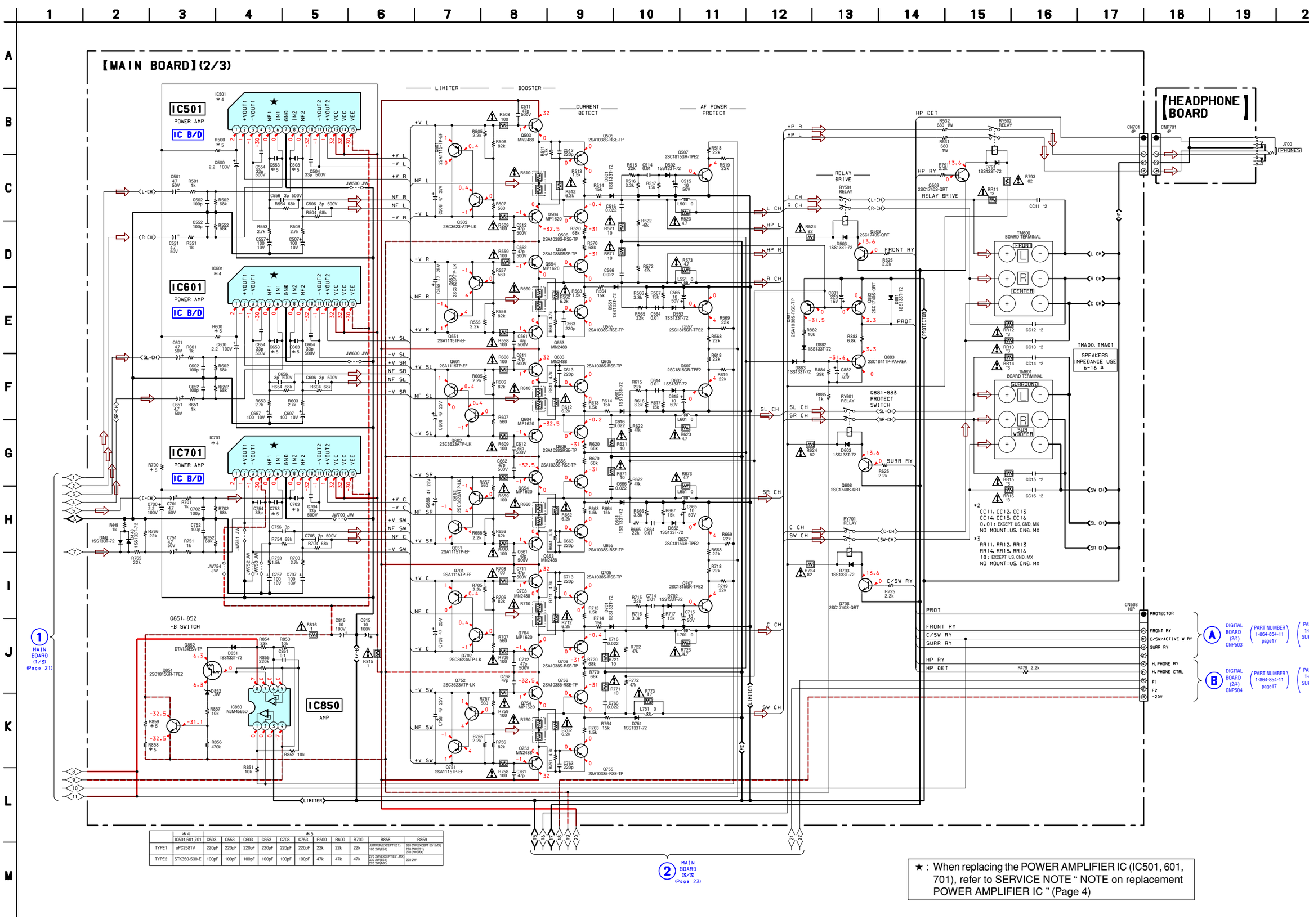
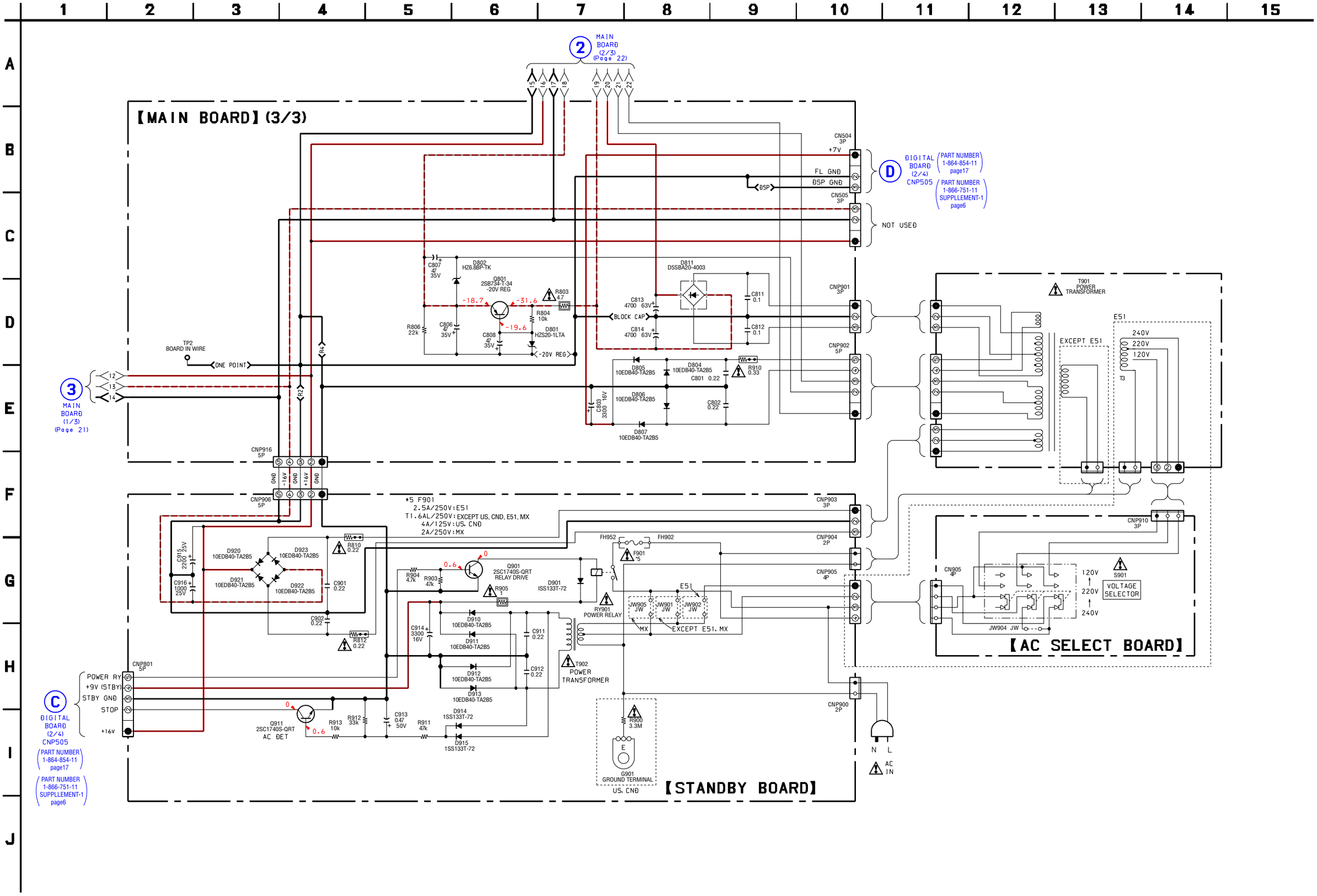
## 3-11. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • See page 29 for IC Block Diagram.




| | ＊4 | | | | | ＊5 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | IC501,601,701 | C503 | C553 | C603 | C653 | C703 | C753 | R500 | R600 | R700 | R858 | R859 |
| TYPE1 | uPC2581V | 220pF | 220pF | 220pF | 220pF | 220pF | 220pF | 22k | 22k | 22k | JUMPER(EXCEPT ES1) 180 2W(ES1) | 330 2W(EXCEPT ES1,MX) 220 2W(ES1) 270 2W(MX) |
| TYPE2 | STK350-530-E | 100pF | 100pF | 100pF | 100pF | 100pF | 100pF | 47k | 47k | 47k | 270 2W(EXCEPT ES1,MX) 330 2W(ES1) 220 2W(MX) | 220 2W |

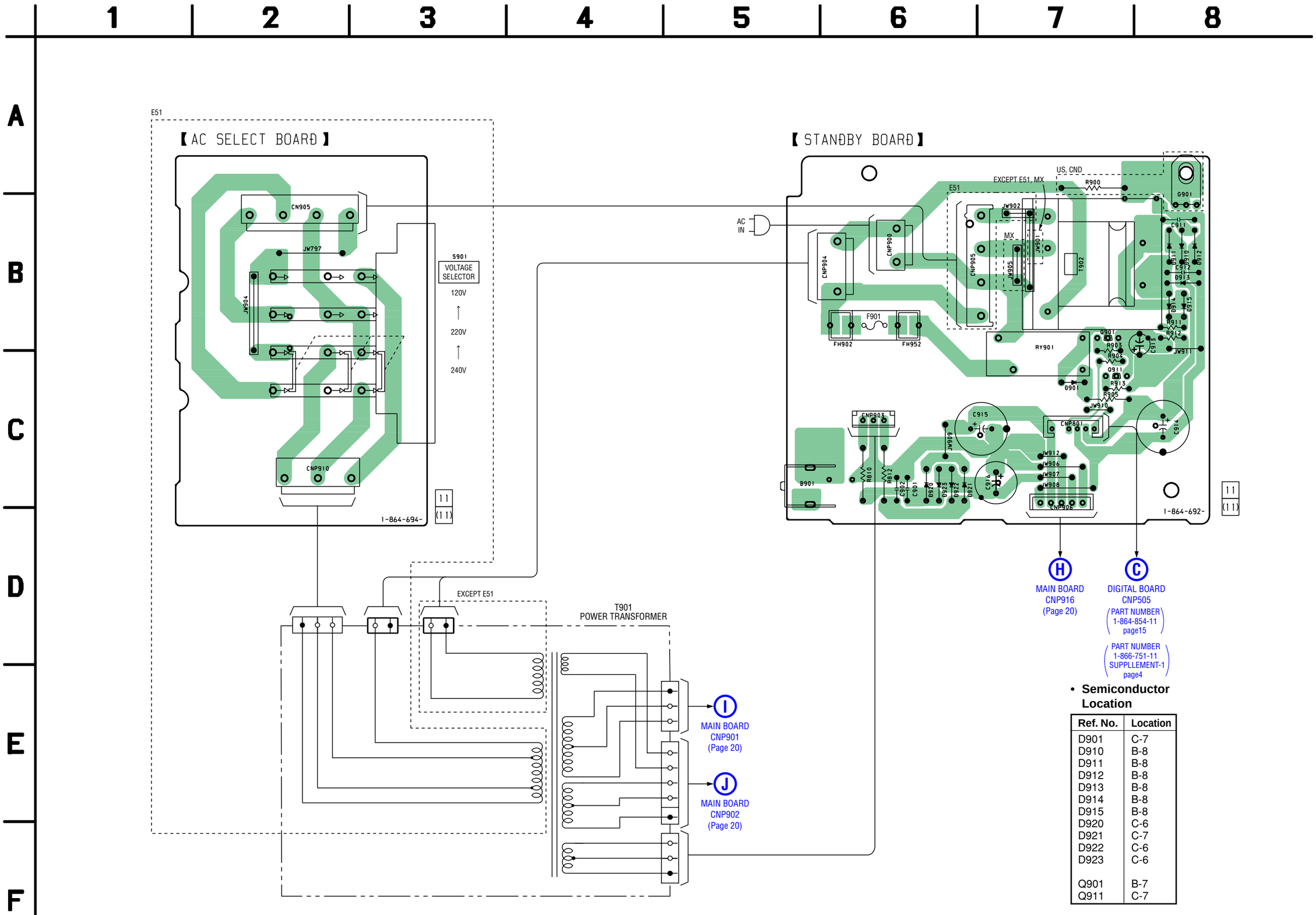
★ : When replacing the POWER AMPLIFIER IC (IC501, 601, 701), refer to SERVICE NOTE " NOTE on replacement POWER AMPLIFIER IC " (Page 4)

## 3-12. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —



## 3-13. PRINTED WIRING BOARD — STANDBY SECTION —

• :Uses unleaded solder. • See page 11 for Circuit Boards Location.

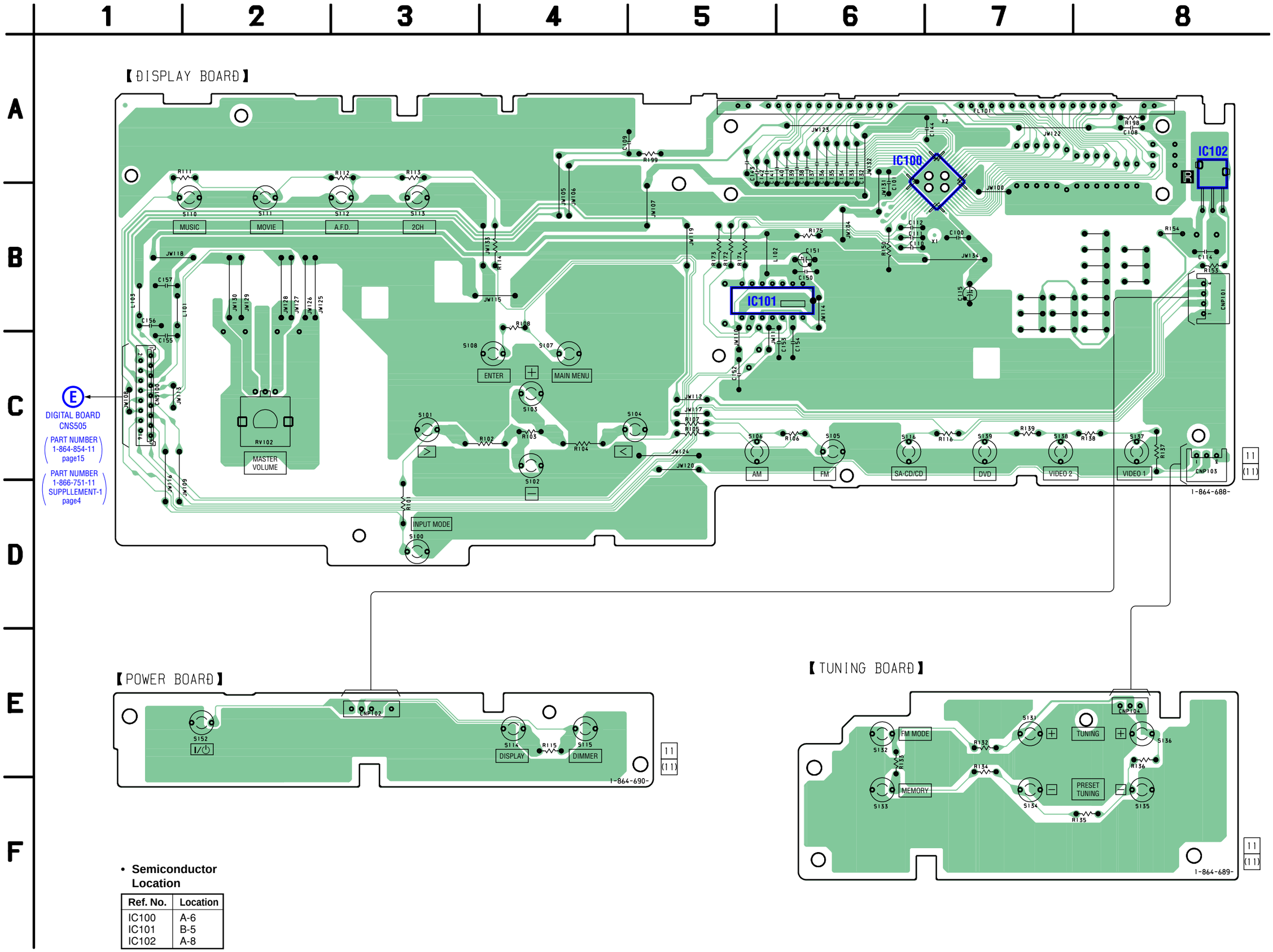



- **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| D901 | C-7 |
| D910 | B-8 |
| D911 | B-8 |
| D912 | B-8 |
| D913 | B-8 |
| D914 | B-8 |
| D915 | B-8 |
| D920 | C-6 |
| D921 | C-7 |
| D922 | C-6 |
| D923 | C-6 |
| Q901 | B-7 |
| Q911 | C-7 |

## 3-14. PRINTED WIRING BOARD — DISPLAY SECTION —

• :Uses unleaded solder. • See page 11 for Circuit Boards Location.




• **Semiconductor Location**

| Ref. No. | Location |
|---|---|
| IC100 | A-6 |
| IC101 | B-5 |
| IC102 | A-8 |

## 3-15. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 30 for IC Block Diagrams.

【DISPLAY BOARD】

*1 R198, R199
1: US, CND, E51, MX
2: EXCEPT US, CND, E51, MX

FL101
VOCUUM FLUORESENT DISPLAY

IC100
FL DRIVE
IC100
PT6315
IC B/D

IC102
REMOTE
COTROL RECEIVER
IC102
RPM7240-H9

IC101
BUFFER
IC101
TC74ACT08P
IC B/D

【TUNING BOARD】
CNP104
BOARD IN 3P
CNP103
3P

【POWER BOARD】
CNP102
4P
CNP101
4P

RV102
ENCODER, ROTARY
MASTER
VOLUME

CNS100
17P

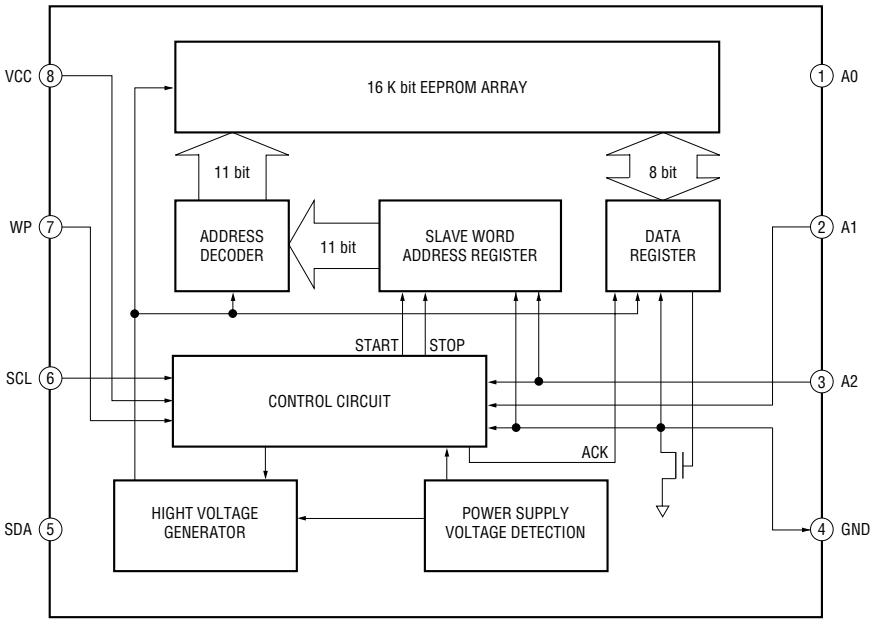
<SIRCS>
<POWER KEY>

E DIGITAL BOARD (2/4) CNS505 — PART NUMBER 1-864-854-11 page17 — PART NUMBER 1-866-751-11 SUPPLLEMENT-1 page6

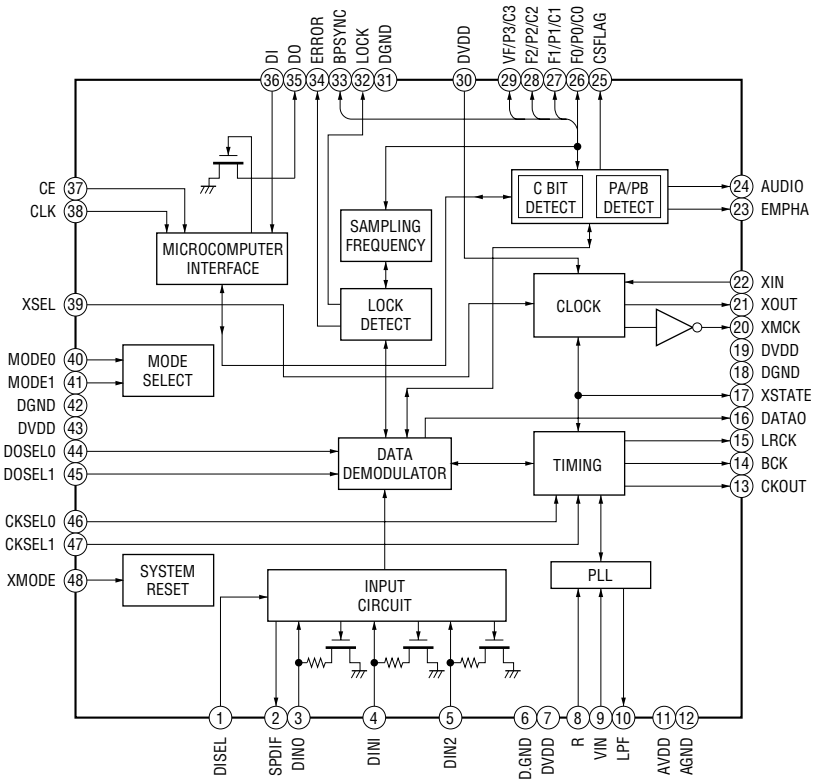
- **IC Block Diagrams**

**– DIGITAL Board –**

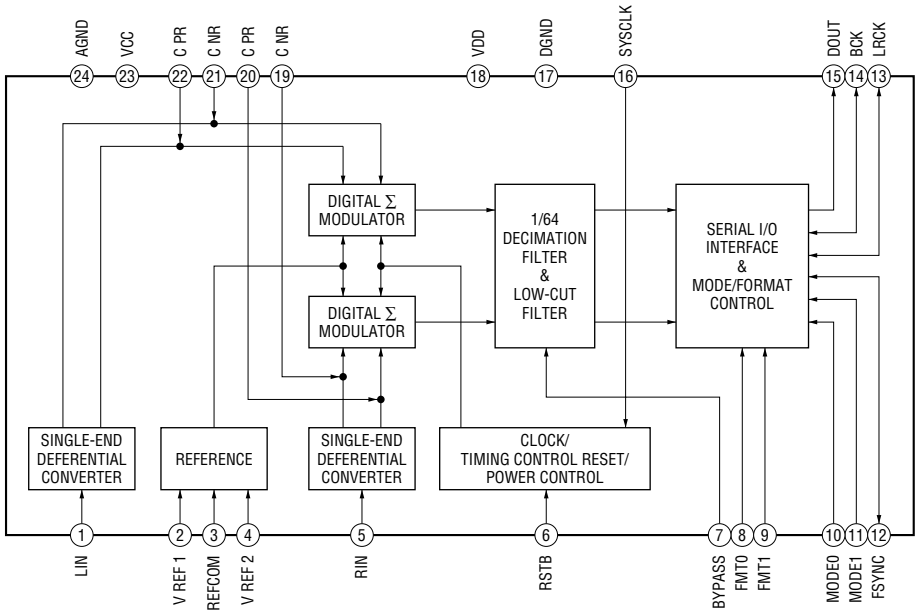
### IC1131 BR24L16F-WE2



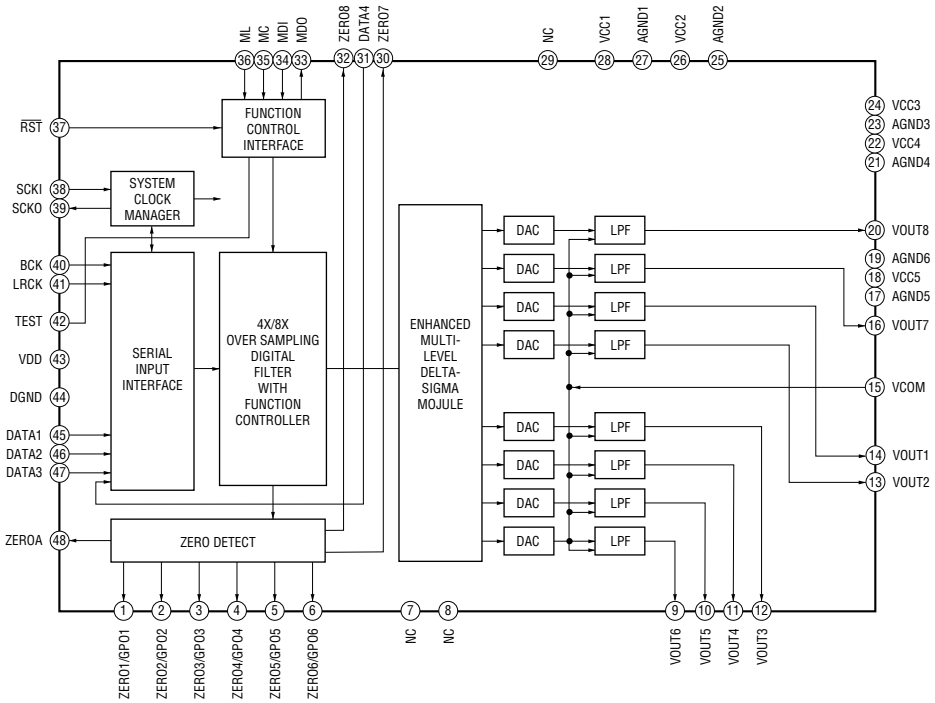

### IC1301 LC89056W-E



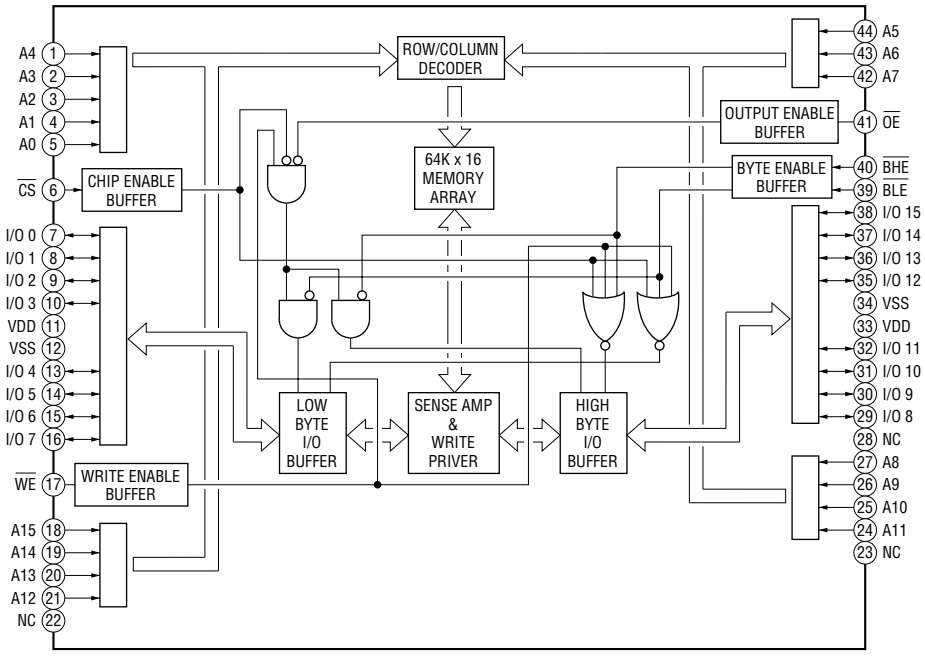
## IC1401 PCM1800E/2K




## IC1452 PCM1602KYG/2K

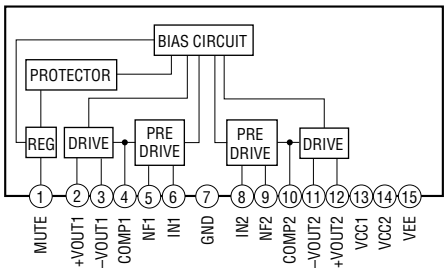


### IC1502 IS61LV6416-10TLT

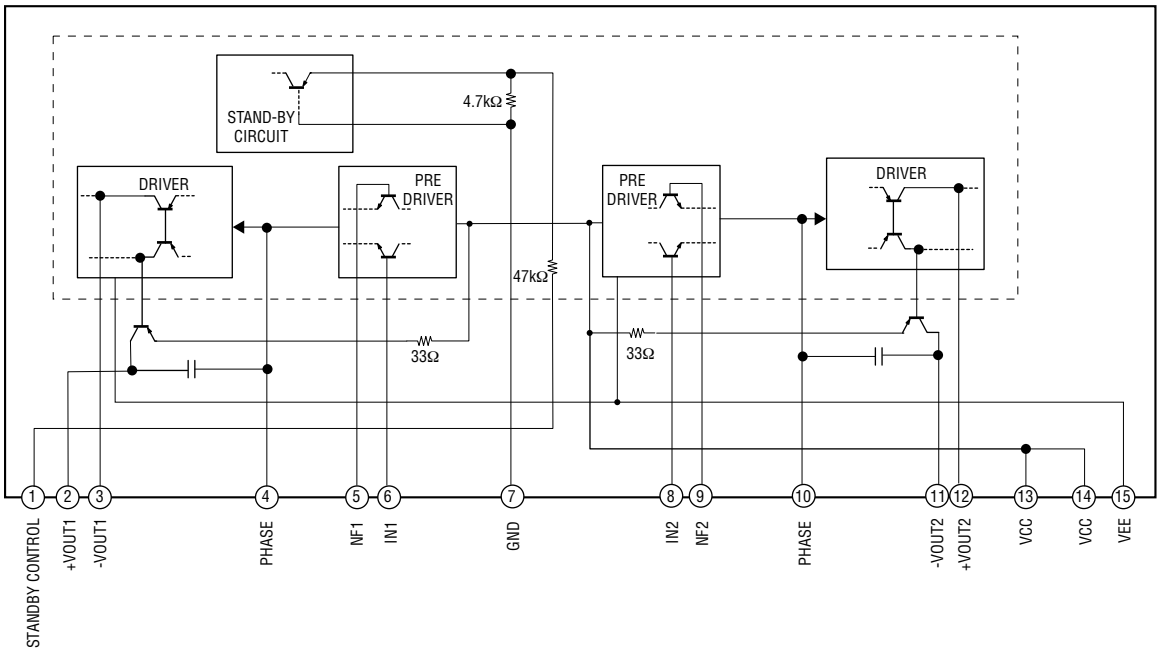



**– MAIN Board –**

### IC501,601,701 uPC2581V-S (TYPE 1)

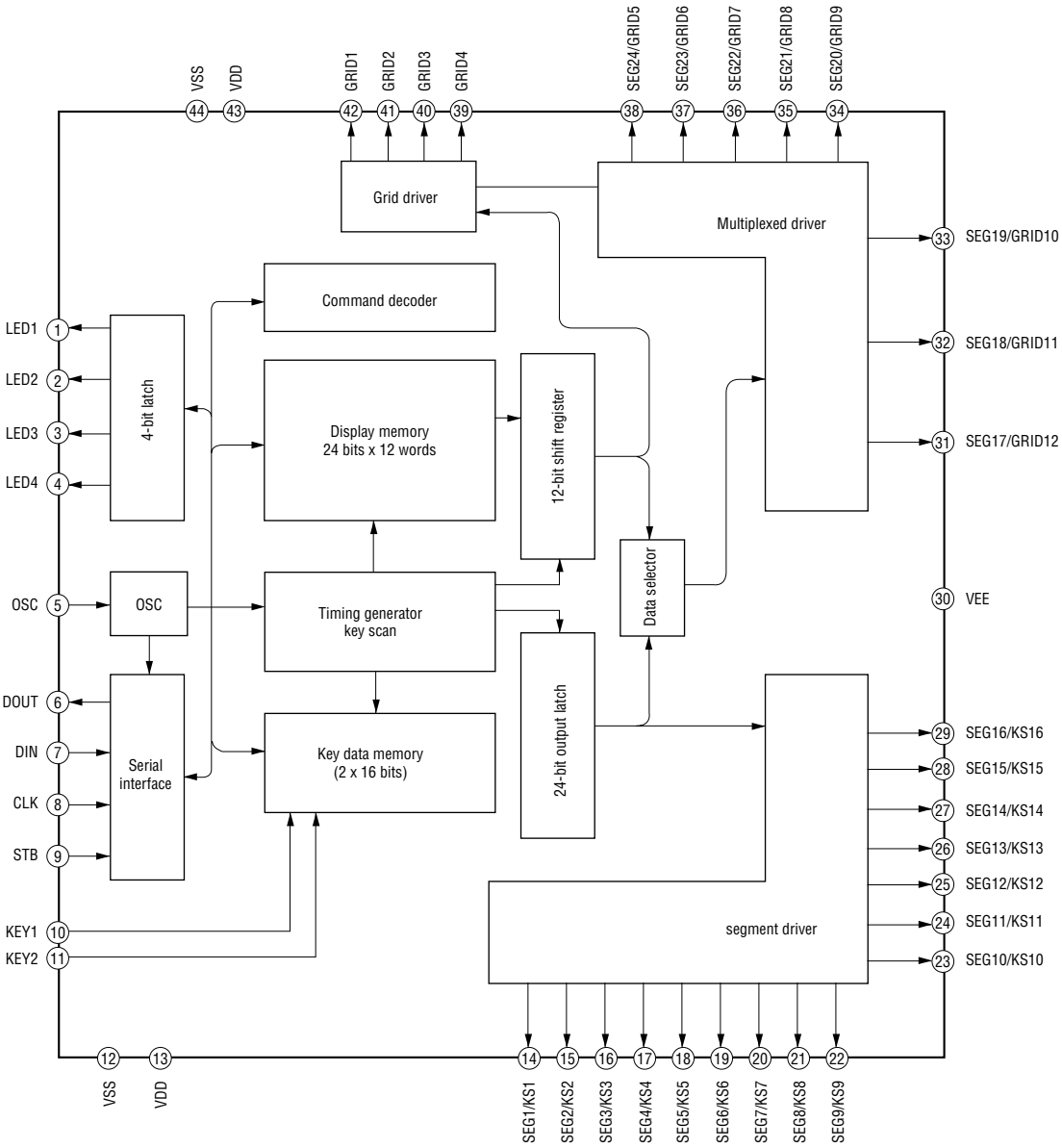



### IC501,601,701 STK350-530-E (TYPE 2)

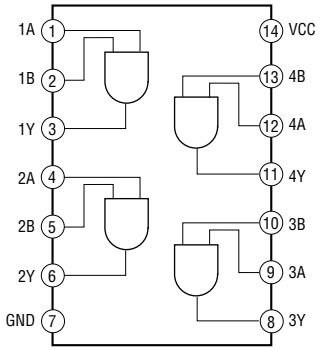


**– DISPLAY Board –**

**IC100 PT6315**




**IC101 TC74ACT08P**



**• IC Pin Function Description**

**DIGITAL BOARD IC1101 MB90488BPF-G-137E1 (SYSTEM CONTROL)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | DATAO | I | Audio data signal input from DIR |
| 2 | GP9 | I | GP9 signal input from DSP |
| 3 | BST | O | BST signal output to DSP |
| 4 | HCS | O | HCS signal output to DSP |
| 5 | HACN | I | HACN signal input from DSP |
| 6 | XRST | O | Reset signal output to DSP |
| 7 | PM | O | PM signal output to DSP |
| 8 | GP12 | O | GP12 signal output to DSP |
| 9 | PCM1800RST | O | IC reset signal output to ADC |
| 10 | PCM1608RST | O | IC reset signal output to DAC |
| 11 | VSS | — | Ground terminal |
| 12 | PCM1608ML | O | Latch signal output to DAC |
| 13 | PCM1608MC | O | Clock signal output to DAC |
| 14 | PCM1608MDI | O | IC data output to DAC |
| 15 | PCM1608MDO | I | IC data input to DAC |
| 16 | T_CLK | O | Tuner clock signal output terminal |
| 17 | T_DI | O | Tuner data signal output terminal |
| 18 | HDOUT | I | HDOUT signal input from DSP |
| 19 | HDIN | O | HDIN signal output to DSP |
| 20 | HCLK | O | Clock signal output to DSP |
| 21 | DLY_B PASS | — | Connected to ground terminal |
| 22 | DIR/AD | — | Connected to ground terminal |
| 23 | VCC5 | — | Power supply |
| 24 | SYS_MUTE | O | Muting and error signal output |
| 25 | ANA/DIG | O | Analog signal or digital signal output terminal |
| 26 | UPCON_RST | — | Not used |
| 27 | FLASH2/VOL_CL | O | Volume IC clock signal output terminal |
| 28 | FLASH1/VOL_DA | O | Volume IC data and latch signal output terminal |
| 29 | SDA | I | EEPROM data signal input terminal |
| 30 | SCL | O | EEPROM clock signal output terminal |
| 31 | ENC_A | — | Short to ground terminal |
| 32 | ENC_B | — | Short to ground terminal |
| 33 | UPCON | — | Not used |
| 34 | UPCON_CLK | — | Not used |
| 35 | AVCC | — | Analog power supply |
| 36 | AVRH | I | Analog reference voltage input |
| 37 | AVSS | — | Analog ground terminal |
| 38 | A/D0 | I | Function key push signal input |
| 39 | A/D1 | I | Function key push signal input |
| 40 | A/D2 | I | Function key push signal input |
| 41 | VERSION | I | Version setting input terminal (DESTINATION) |
| 42 | VSS | — | Ground terminal |
| 43 | RDS SIG | I | RDS signal detect input |
| 44 | MODEL | I | Version setting input (MODEL) |
| 45 | VOL ENCODER (A) | I | Volume signal input from rotary encoder |
| 46 | VOL ENCODER (B) | I | Volume signal input from rotary encoder |
| 47 | BLUE LED | — | Not used |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 48 | STOP | I | AC off detect signal input |
| 49 | MD0 | I | Operation mode setting input |
| 50 | MD1 | I | Operation mode setting input |
| 51 | MD2 | I | Operation mode setting input |
| 52 | RDS CLOCK | I | RDS clock signal input (Not used) |
| 53 | RDS DATA | I | RDS data signal input (Not used) |
| 54 | SIRCS | I | Data signal input from the remote control sensor |
| 55 | HP DETECT | I | Headphone signal input |
| 56 | POWER KEY | I | Power switch key detect signal input |
| 57 | FL_LAT | O | FL driver latch signal output terminal |
| 58 | POWER RY | O | Power relay control signal output |
| 59 | FL_DATA | O | FL driver signal output terminal |
| 60 | FL_CLK | O | FL driver clock signal output terminal |
| 61 | PROTECTOR | I | Protector status detect signal input |
| 62 | HP_RY | O | Headphone relay control signal output |
| 63 | FUSE DETECT | I | Fuse detect signal input |
| 64 | NTSC_PAL_SW | — | Short to ground terminal |
| 65 | COMPO_SW2 | — | Short to ground terminal |
| 66 | FRONT_RY | O | Front speaker relay control signal output |
| 67 | SP_B RY | O | Front speaker B relay control signal output |
| 68 | C/SW RY | O | Center speaker or Subwoofer control signal output |
| 69 | REAR RY | O | Rear speaker relay control signal output |
| 70 | SW_RY | — | Short to ground terminal |
| 71 | COMPO_SW1 | — | Short to ground terminal |
| 72 | BRIGEABLE_RY | O | Bridgeable relay control |
| 73 | DO | I | Frequency data signal input from the tuner |
| 74 | SLATCH | O | Latch signal output to the tuner |
| 75 | TUNED | I | Tuning a frequency signal input from the tuner |
| 76 | STEREO | I | Stereo tuning signal input from the tuner |
| 77 | RSTX | I | System reset |
| 78 | MUTE | O | Muting signal output to the tuner |
| 79 | X1A | — | Not used |
| 80 | X0A | — | Ground terminal |
| 81 | VSS | — | Ground terminal |
| 82 | X0 | — | Connection for a crystal resonator |
| 83 | X1 | — | Connection for a crystal resonator |
| 84 | VCC3 | — | Power supply |
| 85 | GROUPING_SW | — | Not used |
| 86 | SW1 | O | Video select control signal output |
| 87 | SW2 | O | Video select control signal output |
| 88 | SW3 | O | Video select control signal output |
| 89 | SW4 | O | Video select control signal output |
| 90 | SELECT2 | — | Not used |
| 91 | SELECT1 | — | Not used |
| 92 | BST_SEL | O | BST signal output terminal |
| 93 | XMODE | O | Reset signal output to DIR |
| 94 | CKSEL 1 | O | CKSEL control signal to DIR |
| 95 | CLK | O | Clock signal output to DIR |
| 96 | CE | O | Chip enable signal output to DIR |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 97 | DI | O | Data signal output to DIR |
| 98 | DO | I | Data signal input from DIR |
| 99 | ERROR | I | PLL error muting signal input from DIR |
| 100 | XSTATE | I | XSTATE data signal input from DIR |

# SECTION 4
# EXPLODED VIEWS

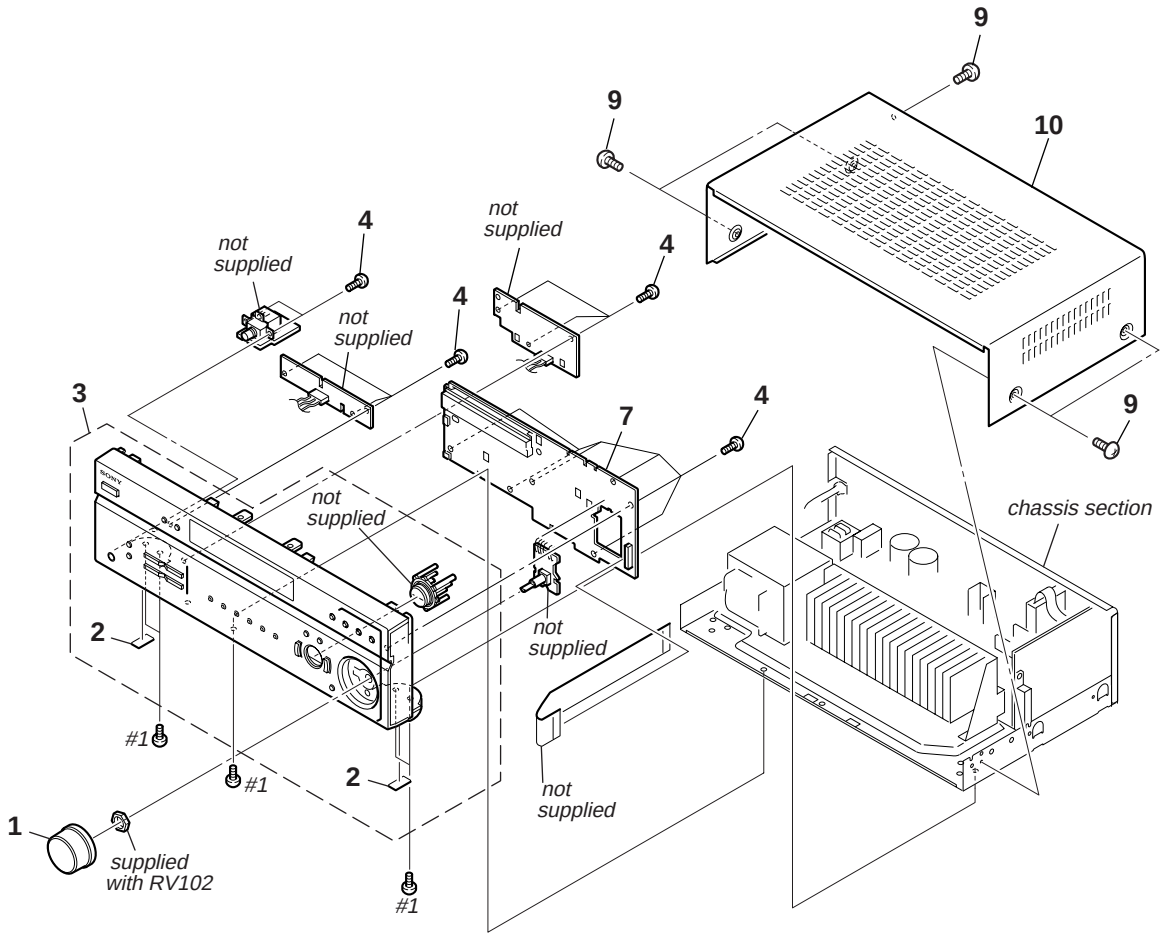
**NOTE:**

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia models

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

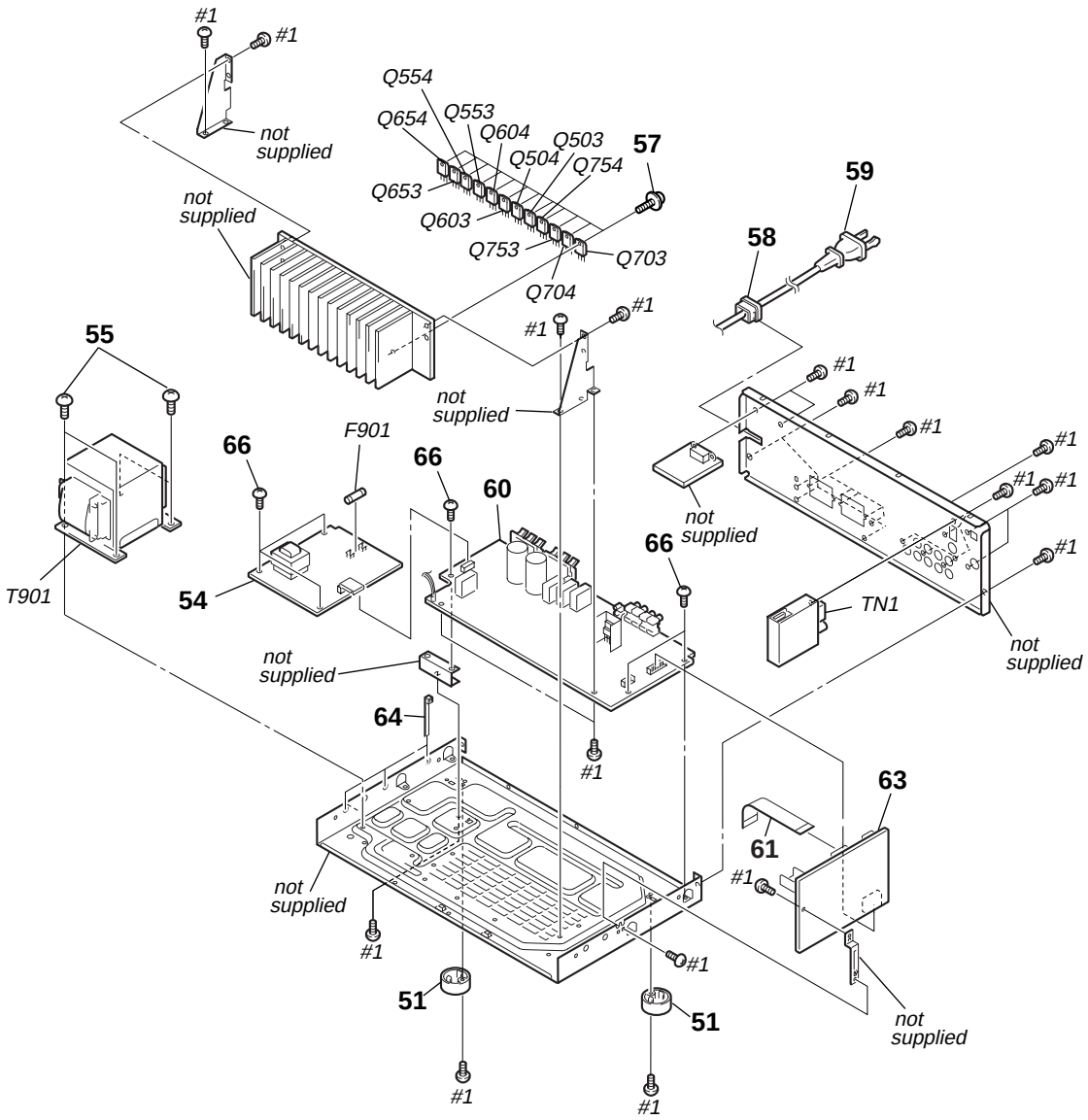
## 4-1. FRONT PANEL SECTION




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 4-232-113-31 | KNOB (VOL) | |
| 2 | 4-977-358-01 | CUSHION | |
| 3 | X-2024-397-1 | FRONT PANEL ASSY (US) | |
| 3 | X-2024-527-1 | FRONT PANEL ASSY (AEP, UK, RU) | |
| 3 | X-2024-543-1 | FRONT PANEL ASSY(EXCEPT US, AEP, UK, RU) | |
| 4 | 3-087-053-01 | +BVTP2.6 (3CR) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 7 | A-1082-615-A | DISPLAY BOARD, COMPLETE | (US, CND, E51, MX) |
| 7 | A-1108-790-A | DISPLAY BOARD, COMPLETE | (EXCEPT US, CND, E51, MX) |
| 7 | A-1148-680-A | DISPLAY BOARD, COMPLETE (AR) | |
| 9 | 3-363-099-11 | SCREW (CASE 3 TP2) | |
| 10 | 4-245-939-61 | CASE | |
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | |

## 4-2. CHASSIS SECTION-1

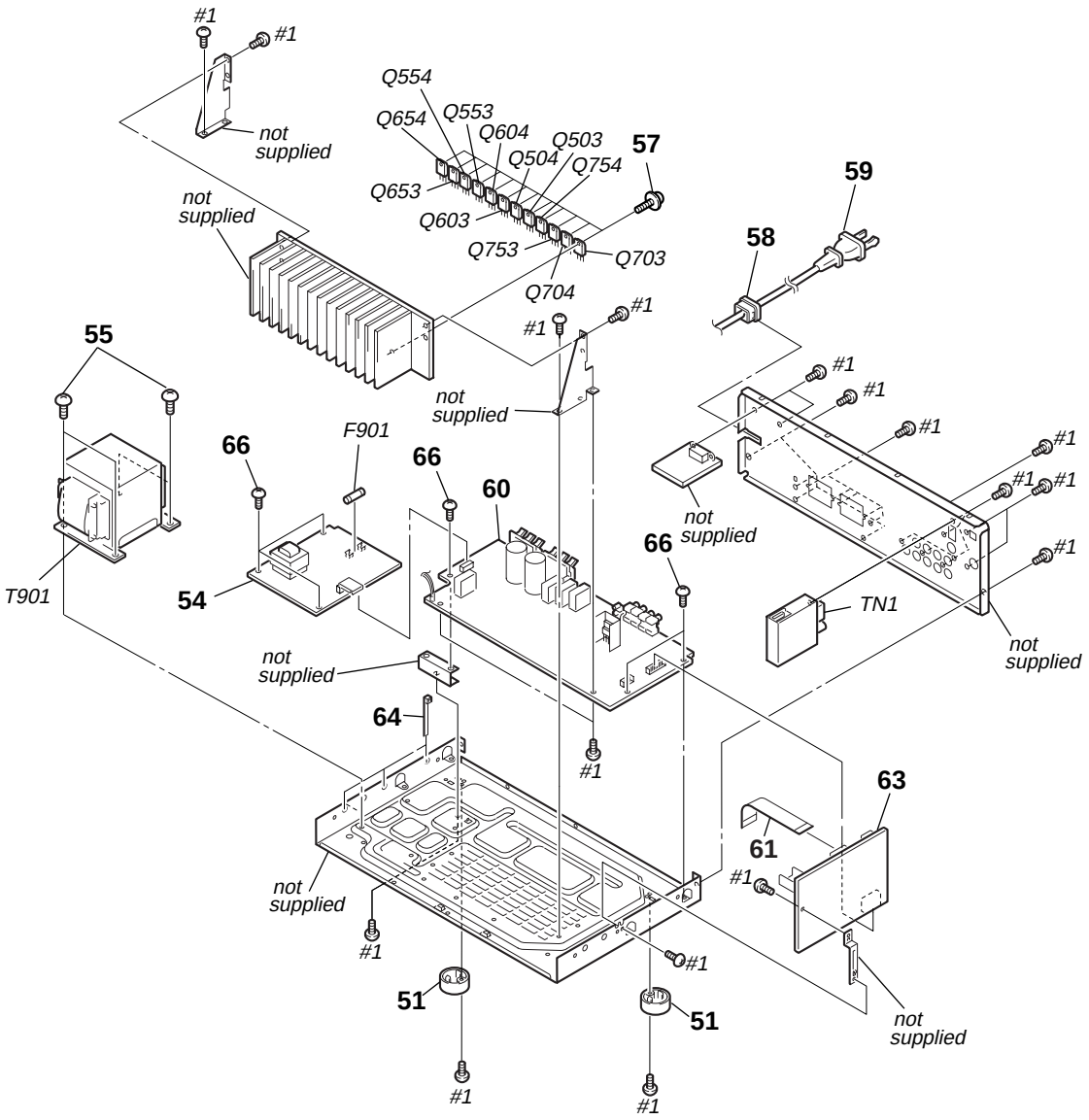



| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | X-4953-448-1 | FOOT ASSY | |
| 54 | A-1082-613-A | STANDBY BOARD, COMPLETE (US, CND) | |
| 54 | A-1083-592-A | STANDBY BOARD, COMPLETE (EXCEPT US, CND, E51, MX) | |
| 54 | A-1083-669-A | STANDBY BOARD, COMPLETE (MX) | |
| 54 | A-1083-980-A | STANDBY BOARD, COMPLETE (E51) | |
| 54 | A-1148-678-A | STANDBY BOARD, COMPLETE (AR) | |
| 55 | 4-249-675-01 | +BV SUMITITE S 4X6 ROUND | |
| 57 | 3-905-609-01 | SCREW (TRANSISTOR) | |
| * 58 | 3-703-244-00 | BUSHING (2104), CORD | |
| ⚠59 | 1-777-071-23 | CORD, POWER (EXCEPT US, CND, MX, AUS) | |
| ⚠59 | 1-783-820-11 | CORD, POWER (US, CND) | |
| ⚠59 | 1-783-941-12 | CORD, POWER (AR) | |
| ⚠59 | 1-827-295-22 | CORD, POWER (AUS) | |
| ⚠59 | 1-829-627-11 | POWER-SUPPLY CORD (MX) | |
| 60 | A-1082-609-A | MAIN BOARD, COMPLETE (US, CND) | |
| 60 | A-1083-591-A | MAIN BOARD, COMPLETE (EXCEPT US, CND, E51, MX) | |
| 60 | A-1083-969-A | MAIN BOARD, COMPLETE (MX) | |
| 60 | A-1108-531-A | MAIN BOARD, COMPLETE (E51) | |
| 60 | A-1148-673-A | MAIN BOARD, COMPLETE (AR) | |
| 61 | 1-828-963-11 | WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP, UK, RU) | |
| 61 | 1-828-980-11 | WIRE (FLAT TYPE) (15 CORE) (AEP, UK, RU) | |
| 63 | A-1082-618-A | DIGITAL BOARD, COMPLETE (US, CND) | |
| 63 | A-1083-438-A | DIGITAL BOARD, COMPLETE (AEP, UK, RU) | |
| 63 | A-1083-593-A | DIGITAL BOARD, COMPLETE (SP, SP6) | |
| 63 | A-1083-642-A | DIGITAL BOARD, COMPLETE (AUS) | |
| 63 | A-1083-670-A | DIGITAL BOARD, COMPLETE (MX) | |
| 63 | A-1083-982-A | DIGITAL BOARD, COMPLETE (E51) | |
| 63 | A-1084-191-A | DIGITAL BOARD, COMPLETE (AR) | |

– Continued on page 36 –

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

## 4-3. CHASSIS SECTION-2




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | – Continued from page 35 – | |
| 64 | 3-701-748-00 | CLAMP | |
| 66 | 3-077-331-21 | +BV3 (3-CR) | |
| ⚠F901 | 1-532-464-32 | FUSE 2.5A/250V (E51) | |
| ⚠F901 | 1-532-503-32 | FUSE T1.6AL/250V (EXCEPT US, CND, E51, MX, AR) | |
| ⚠F901 | 1-532-503-33 | FUSE T1.6AL/250V (AR) | |
| ⚠F901 | 1-533-452-12 | FUSE, GLASS TUBE (DIA. 5) 4A/125V (US, CND) | |
| ⚠F901 | 1-533-468-12 | FUSE, GLASS TUBE (DIA. 5) 2A/250V (MX) | |
| Q503 | 6-702-390-01 | IC MN2488-OPY-MK | |
| Q504 | 6-702-391-01 | IC MP1620-OPY-MK | |
| Q553 | 6-702-390-01 | IC MN2488-OPY-MK | |
| Q554 | 6-702-391-01 | IC MP1620-OPY-MK | |
| Q603 | 6-702-390-01 | IC MN2488-OPY-MK | |
| Q604 | 6-702-391-01 | IC MP1620-OPY-MK | |
| Q653 | 6-702-390-01 | IC MN2488-OPY-MK | |
| Q654 | 6-702-391-01 | IC MP1620-OPY-MK | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q703 | 6-702-390-01 | IC MN2488-OPY-MK | |
| Q704 | 6-702-391-01 | IC MP1620-OPY-MK | |
| Q753 | 6-702-390-01 | IC MN2488-OPY-MK | |
| Q754 | 6-702-391-01 | IC MP1620-OPY-MK | |
| ⚠T901 | 1-443-185-11 | POWER TRANSFORMER (US, CND) | |
| ⚠T901 | 1-443-186-11 | POWER TRANSFORMER (E51) | |
| ⚠T901 | 1-443-521-11 | POWER TRANSFORMER (MX) | |
| ⚠T901 | 1-443-629-11 | POWER TRANSFORMER (EXCEPT US, CND, E51, MX) | |
| TN1 | 1-693-675-11 | TUNER UNIT (MX, AR) | |
| TN1 | 1-693-675-21 | TUNER UNIT (US, CND, E51) | |
| TN1 | 1-693-676-21 | TUNER UNIT (AEP, UK, RU) | |
| TN1 | 1-693-678-11 | TUNER UNIT (SP, SP6, AUS) | |
| #1 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | |

| | |
|---|---|
| The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.<br>Ne les remplacer que par une pièce portant le numéro spécifié. |

# SECTION 5
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- COILS
  uH: µH
- CAPACITORS
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia models

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| | | AC SELECT BOARD (E51) | | | | |
| | | ********** | | | | |
| | | < CONNECTOR > | | | | |
| CN905 | 1-568-106-11 | PIN, CONNECTOR (3.96mm PITCH) 4P (E51) | | | | |
| | | < CONNECTOR > | | | | |
| * CNP910 | 1-564-687-11 | PIN, CONNECTOR (3.96mm PITCH) 3P (E51) | | | | |
| | | < SWITCH > | | | | |
| ⚠S901 | 1-571-437-21 | SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E51) | | | | |
| ********** | | | | | | |
| | A-1082-618-A | DIGITAL BOARD, COMPLETE (US, CND) | | | | |
| | A-1083-438-A | DIGITAL BOARD, COMPLETE (AEP, UK, RU) | | | | |
| | A-1083-593-A | DIGITAL BOARD, COMPLETE (SP, SP6) | | | | |
| | A-1083-642-A | DIGITAL BOARD, COMPLETE (AUS) | | | | |
| | A-1083-670-A | DIGITAL BOARD, COMPLETE (MX) | | | | |
| | A-1083-982-A | DIGITAL BOARD, COMPLETE (E51) | | | | |
| | A-1148-681-A | DIGITAL BOARD, COMPLETE (AR) | | | | |
| | | ********** | | | | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | | | | |
| | | < CAPACITOR > | | | | |
| C1001 | 1-126-925-91 | ELECT | 470uF | 20% | 10V | |
| C1002 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1004 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 16V | |
| C1021 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1022 | 1-126-925-91 | ELECT | 470uF | 20% | 10V | |
| C1031 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1032 | 1-126-925-91 | ELECT | 470uF | 20% | 10V | |
| C1063 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | (AEP, UK, RU) |
| C1064 | 1-126-947-11 | ELECT | 47uF | 20% | 16V | (AEP, UK, RU) |
| C1100 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1102 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1103 | 1-126-947-11 | ELECT | 47uF | 20% | 16V | |
| C1107 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1108 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1118 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1119 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1120 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C1121 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1122 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1123 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1124 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1126 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V | |
| C1129 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C1130 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C1137 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V | |
| C1138 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1139 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1140 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1142 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1149 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V | |
| C1251 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1252 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1253 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1254 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V | |
| C1255 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V | |
| C1299 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1301 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1302 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C1303 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1304 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C1305 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1306 | 1-126-947-11 | ELECT | 47uF | 20% | 16V | |
| C1308 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1309 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V | |
| C1310 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V | |
| C1312 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1313 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V | |
| C1314 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1315 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1352 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1355 | 1-104-662-91 | ELECT | 22uF | 20% | 25V | |
| C1356 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V | |
| C1357 | 1-162-905-11 | CERAMIC CHIP | 1PF | 0.25PF | 50V | |
| C1358 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1359 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V | |
| C1360 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V | |
| C1361 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1362 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1401 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |
| C1402 | 1-126-947-11 | ELECT | 47uF | 20% | 16V | |
| C1403 | 1-126-964-11 | ELECT | 10uF | 20% | 50V | |
| C1404 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C1405 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1406 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C1407 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C1408 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1409 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1411 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1418 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1422 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1428 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1432 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1438 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1441 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1448 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1450 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1451 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1454 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1457 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1458 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1460 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1462 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1468 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1472 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1478 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1483 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1487 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1488 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1491 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1494 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1495 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C1501 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1502 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1503 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1504 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1505 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1506 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1507 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1508 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1509 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1510 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1511 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1513 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1514 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1515 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1516 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1517 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1518 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1519 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1520 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1521 | 1-162-920-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C1522 | 1-162-920-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C1525 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1547 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1566 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1567 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1568 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1569 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1604 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1605 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1620 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1905 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1906 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1908 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1913 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1914 | 1-126-947-11 | ELECT | 47uF | 20% | 16V |
| | | < CONNECTOR > | | | |
| CNP503 | 1-779-977-11 | PIN, CONNECTOR 6P | | | |
| CNP504 | 1-784-922-11 | PIN, CONNECTOR 5P | | | |
| CNP505 | 1-779-799-11 | PIN, CONNECTOR 9P | | | |
| | | < CONNECTOR > | | | |
| CNS501 | 1-573-829-11 | CONNECTOR, BOARD TO BOARD 15P | | | |
| CNS502 | 1-766-719-41 | CONNECTOR, BOARD TO BOARD 10P | | | |
| CNS504 | 1-568-826-11 | CONNECTOR, FFC 7P | | | |
| CNS505 | 1-784-778-11 | CONNECTOR, FFC 17P | | | |
| CNS508 | 1-568-830-11 | CONNECTOR, FFC 11P (EXCEPT AEP, UK, RU) | | | |
| CNS508 | 1-784-776-11 | CONNECTOR, FFC 15P (AEP, UK, RU) | | | |
| CNS509 | 1-784-766-11 | CONNECTOR, FFC 5P | | | |
| | | < DIODE > | | | |
| D1001 | 8-719-053-18 | DIODE 1SR154-400TE-25 | | | |
| D1003 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D1004 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D1103 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1105 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1106 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1107 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1108 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1110 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1111 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1301 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1302 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| | | < FERRITE BEAD > | | | |
| FB1101 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1302 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1305 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1306 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1308 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1405 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1452 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1453 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1501 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1502 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1503 | 1-400-862-11 | BEAD, FERRITE | | | |
| | | < IC > | | | |
| IC1001 | 8-759-231-53 | IC TA7805S | | | |
| IC1031 | 6-705-464-01 | IC BA50BC0T | | | |
| IC1071 | 6-702-771-01 | IC TA78033LS (AEP, UK, RU) | | | |
| IC1101 | 6-805-148-01 | IC MB90488BPF-G-137E1 | | | |
| IC1111 | 6-702-913-01 | IC S-80929CNMC-G8ZT2G | | | |
| IC1131 | 6-704-004-01 | IC BR24L16F-WE2 | | | |
| IC1301 | 8-759-825-15 | IC LC89056W-E | | | |
| IC1303 | 8-759-242-70 | IC TC7WU04F (TE12R) | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| IC1352 | 6-600-466-01 | IC TORX147L (SA-CD/CD IN) | | | |
| IC1401 | 8-759-560-56 | IC PCM1800E/2K | | | |
| IC1452 | 6-705-022-01 | IC PCM1602KYG/2K | | | |
| IC1501 | 6-705-843-01 | IC CXD9720BQ | | | |
| IC1502 | 6-704-832-01 | IC IS61LV6416-10TLT | | | |
| IC1503 | 8-759-546-74 | IC TC7WH157FU (TE12R) | | | |
| IC1901 | 6-701-887-02 | IC SI-3004KWF | | | |
| IC1902 | 8-759-701-59 | IC TA7809S | | | |
| IC1904 | 6-705-463-01 | IC BA33BC0T | | | |
| | | < JACK > | | | |
| J1301 | 1-794-972-11 | JACK, PIN 1P (DVD IN COAXIAL) | | | |
| | | < SHORT > | | | |
| JR1020 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JR1201 | 1-211-950-11 | SHORT CHIP | 0 | | |
| JR1202 | 1-216-864-11 | SHORT CHIP | 0 (EXCEPT AEP, UK, RU) | | |
| JR1203 | 1-216-296-11 | SHORT CHIP | 0 | | |
| JR1204 | 1-211-950-11 | SHORT CHIP | 0 | | |
| JR1206 | 1-211-950-11 | SHORT CHIP | 0 | | |
| JR1211 | 1-216-296-11 | SHORT CHIP | 0 | | |
| JR1212 | 1-216-296-11 | SHORT CHIP | 0 | | |
| JR1214 | 1-216-296-11 | SHORT CHIP | 0 | | |
| JR1215 | 1-216-296-11 | SHORT CHIP | 0 | | |
| JR1301 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JR1501 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JR1511 | 1-400-862-11 | BEAD, FERRITE | | | |
| | | < TRANSISTOR > | | | |
| Q1103 | 8-729-027-43 | TRANSISTOR | RT1N141C-TP-1 | | |
| Q1104 | 8-729-230-49 | TRANSISTOR | 2SC2712-YG-TE85L | | |
| Q1105 | 8-729-230-49 | TRANSISTOR | 2SC2712-YG-TE85L | | |
| | | < RESISTOR > | | | |
| R1018 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1019 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1035 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1039 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1041 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1042 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1044 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1049 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1052 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1053 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1058 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W (AEP, UK, RU) |
| R1059 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W (AEP, UK, RU) |
| R1065 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1066 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1067 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1068 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1071 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1072 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1073 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1075 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1076 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1077 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1078 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1079 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1083 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1088 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1094 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (EXCEPT AEP, UK, RU) |
| R1095 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (EXCEPT AEP, UK, RU) |
| R1096 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1097 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1098 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1099 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1105 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1106 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1107 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1108 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1109 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1110 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1111 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1112 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1113 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1114 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1115 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1117 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1118 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1119 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1120 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1121 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1122 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1123 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1124 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1127 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1128 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1129 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1132 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1134 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1135 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1136 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1137 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1138 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1140 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1142 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1143 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1144 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1147 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1149 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1150 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1151 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1152 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1153 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1154 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1155 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1159 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R1160 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1161 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1162 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1164 | 1-216-864-11 | SHORT CHIP | 0 | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1167 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1168 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1175 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W (AEP, UK, RU) |
| R1176 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1177 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1178 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1179 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1180 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1186 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1187 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1189 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1190 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1193 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (E51) |
| R1193 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W (AUS) |
| R1193 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W (AEP, UK, RU, MX, SP, SP6, AR) |
| R1194 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W (AEP, UK, RU) |
| R1194 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W (SP, SP6) |
| R1194 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W (AR) |
| R1194 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W (E51, MX, AUS) |
| R1194 | 1-216-864-11 | SHORT CHIP | 0 (US, CND) | | |
| R1201 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1251 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/10W |
| R1252 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/10W |
| R1260 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1261 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1301 | 1-216-830-11 | METAL CHIP | 5.6K | 5% | 1/10W |
| R1302 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1303 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R1304 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1305 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R1306 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R1307 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1308 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1309 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1310 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1311 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1312 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1313 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1314 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1315 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1316 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1318 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1352 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1355 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R1356 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1357 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1358 | 1-216-854-11 | METAL CHIP | 560K | 5% | 1/10W |
| R1359 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1360 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1362 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1401 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1402 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1403 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1407 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1416 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1420 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1421 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1425 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1426 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1435 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1436 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1445 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1446 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1455 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1456 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1460 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1461 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1464 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1466 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1470 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1471 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1472 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1474 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1475 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1476 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1484 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1486 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1490 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1491 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1492 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1493 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1494 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1495 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1501 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1502 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1503 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1504 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1505 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1506 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1507 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1508 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1509 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1510 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1511 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1512 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1513 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1514 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1515 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1517 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1518 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1519 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1520 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1521 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1522 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1523 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1524 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1525 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1526 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1527 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1528 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1532 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1533 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1534 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1535 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1536 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1537 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1538 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1539 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1540 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1541 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1542 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1543 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1544 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1545 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1546 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1547 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1548 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1549 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1550 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1551 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1552 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1553 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1554 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1555 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1556 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1570 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1571 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1572 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1573 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1574 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1635 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1636 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | | < VIBRATOR > | | | |
| X1101 | 1-813-448-21 | PIEZOELECTRIC OSCILLATOR 24MHz | | | |
| X1301 | 1-795-126-21 | VIBRATOR, CRYSTAL 12.288MHz | | | |
| X1502 | 1-813-276-21 | QUARTZ CRYSTAL 13.9MHz | | | |
| ********** | | | | | |
| | A-1082-615-A | DISPLAY BOARD, COMPLETE (US, CND, E51, MX) | | | |
| | A-1108-790-A | DISPLAY BOARD, COMPLETE (EXCEPT US, CND, E51, MX) | | | |
| | A-11448-680-A | DISPLAY BOARD, COMPLETE (AR) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C100 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C101 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C108 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C109 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C110 | 1-127-868-11 | CERAMIC | 2200PF | 10% | 50V |
| C111 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C112 | 1-162-282-31 | CERAMIC | 100PF | 10% | 50V |
| C114 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C115 | 1-124-261-00 | ELECT | 10uF | 20% | 50V |
| C132 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C133 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C134 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C135 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C136 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C137 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C138 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C139 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C140 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C141 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C142 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C143 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C144 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C150 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C151 | 1-124-261-00 | ELECT | 10uF | 20% | 50V |
| C152 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C153 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C154 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C155 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C156 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C157 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| | | < CONNECTOR > | | | |
| * CNP101 | 1-564-519-11 | PLUG, CONNECTOR 4P | | | |
| * CNP103 | 1-564-518-11 | PLUG, CONNECTOR 3P | | | |
| | | < CONNECTOR > | | | |
| * CNS100 | 1-569-934-11 | SOCKET, CONNECTOR 17P | | | |
| | | < FLUORESCENT INDICATOR > | | | |
| FL101 | 1-518-966-11 | VOCUUM FLUORESENT DISPLAYS | | | |
| | | < IC > | | | |
| IC100 | 8-759-643-83 | IC PT6315 | | | |
| IC101 | 8-759-243-51 | IC TC74ACT08P | | | |
| IC102 | 6-600-309-01 | IC RPM7240-H9 (R) | | | |
| | | < RESISTOR > | | | |
| R101 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R102 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R103 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R104 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R105 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R106 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| R107 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R108 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R111 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R112 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R113 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R114 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R116 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| R137 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| R138 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R139 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R150 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R153 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R172 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R173 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R174 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |

# STR-K670P

**Ver. 1.3**

**DISPLAY** **HEADPHONE** **MAIN**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| ⚠R175 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| ⚠R198 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W |
| | | | | | (US, CND, E51, MX) |
| ⚠R198 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W |
| | | | | | (EXCEPT US, CND, E51, MX) |
| ⚠R199 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W |
| | | | | | (US, CND, E51, MX) |
| ⚠R199 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W |
| | | | | | (EXCEPT US, CND, E51, MX) |
| | | < VARIABLE RESISTOR > | | | |
| RV102 | 1-418-725-41 | ENCODER, ROTARY (12 TYPE) | | | |
| | | | | | (MASTER VOLUME) |
| | | < SWITCH > | | | |
| S100 | 1-771-410-21 | SWITCH, TACTILE (INPUT MODE) | | | |
| S101 | 1-771-410-21 | SWITCH, TACTILE (>) | | | |
| S102 | 1-771-410-21 | SWITCH, TACTILE (–) | | | |
| S103 | 1-771-410-21 | SWITCH, TACTILE (+) | | | |
| S104 | 1-771-410-21 | SWITCH, TACTILE (<) | | | |
| S105 | 1-771-410-21 | SWITCH, TACTILE (FM) | | | |
| S106 | 1-771-410-21 | SWITCH, TACTILE (AM) | | | |
| S107 | 1-771-410-21 | SWITCH, TACTILE (MAIN MENU) | | | |
| S108 | 1-771-410-21 | SWITCH, TACTILE (ENTER) | | | |
| S110 | 1-771-410-21 | SWITCH, TACTILE (MUSIC) | | | |
| S111 | 1-771-410-21 | SWITCH, TACTILE (MOVIE) | | | |
| S112 | 1-771-410-21 | SWITCH, TACTILE (A.F.D.) | | | |
| S113 | 1-771-410-21 | SWITCH, TACTILE (2CH) | | | |
| S116 | 1-771-410-21 | SWITCH, TACTILE (SA-CD/CD) | | | |
| S137 | 1-771-410-21 | SWITCH, TACTILE (VIDEO 1) | | | |
| S138 | 1-771-410-21 | SWITCH, TACTILE (VIDEO 2) | | | |
| S139 | 1-771-410-21 | SWITCH, TACTILE (DVD) | | | |
| ********** | | | | | |
| | | HEADPHONE BOARD | | | |
| | | ********** | | | |
| | | < CONNECTOR > | | | |
| CNP701 | 1-691-766-11 | PLUG (MICRO CONNECTOR) 4P | | | |
| | | < JACK > | | | |
| J700 | 1-815-314-21 | JACK (PHONES) | | | |
| ********** | | | | | |
| | A-1082-609-A | MAIN BOARD, COMPLETE (US, CND) | | | |
| | A-1083-591-A | MAIN BOARD, COMPLETE | | | |
| | | | | | (EXCEPT US, CND, E51, MX) |
| | A-1083-969-A | MAIN BOARD, COMPLETE (MX) | | | |
| | A-1108-531-A | MAIN BOARD, COMPLETE (E51) | | | |
| | A-1148-673-A | MAIN BOARD, COMPLETE (AR) | | | |
| | | ********** | | | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | | | |
| | | < CAPACITOR > | | | |
| C400 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C402 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C403 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C404 | 1-162-294-31 | CERAMIC | 0.001uF | 10% | 50V |
| C421 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C422 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C423 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C424 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C425 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C426 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C431 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C432 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C433 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C434 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C435 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C436 | 1-126-961-11 | ELECT | 2.2uF | 20% | 50V |
| C446 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C452 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C471 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C472 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C482 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C484 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C500 | 1-128-579-11 | ELECT | 2.2uF | 20% | 100V |
| C501 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C502 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| C503 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| | | | | | (TYPE2) |
| C503 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| | | | | | (TYPE1) |
| C504 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C506 | 1-107-583-11 | CERAMIC | 3PF | 0.25PF | 500V |
| C507 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C508 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C511 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C512 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C513 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| C514 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V |
| C515 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C516 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C551 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C552 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| C553 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| | | | | | (TYPE2) |
| C553 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| | | | | | (TYPE1) |
| C554 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C556 | 1-107-583-11 | CERAMIC | 3PF | 0.25PF | 500V |
| C557 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C558 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C561 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C562 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C563 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| C564 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V |
| C565 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C566 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C590 | 1-136-171-00 | FILM | 0.33uF | 5% | 50V |
| C592 | 1-136-175-00 | FILM | 0.68uF | 5% | 50V |
| C593 | 1-136-159-00 | FILM | 0.033uF | 5% | 50V |
| C594 | 1-137-190-91 | FILM | 0.22uF | 5% | 50V |
| C600 | 1-128-579-11 | ELECT | 2.2uF | 20% | 100V |
| C601 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C602 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| C603 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| | | | | | (TYPE2) |
| C603 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| | | | | | (TYPE1) |

As for the display of type1 and type2, refer to the SERVICE NOTE “Note on replacement POWER AMPLIFIER IC“ .

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C604 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C606 | 1-107-583-11 | CERAMIC | 3PF | 0.25PF | 500V |
| C607 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C608 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C611 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C612 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C613 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| C614 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V |
| C615 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C616 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C651 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C652 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| C653 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (TYPE2) |
| C653 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V (TYPE1) |
| C654 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C656 | 1-107-583-11 | CERAMIC | 3PF | 0.25PF | 500V |
| C657 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C658 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C661 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C662 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C663 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| C664 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V |
| C665 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C666 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C700 | 1-128-579-11 | ELECT | 2.2uF | 20% | 100V |
| C701 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C702 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| C703 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (TYPE2) |
| C703 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V (TYPE1) |
| C704 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C706 | 1-107-583-11 | CERAMIC | 3PF | 0.25PF | 500V |
| C707 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C708 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C711 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C712 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C713 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| C714 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V |
| C715 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C716 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C751 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C752 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V |
| C753 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (TYPE2) |
| C753 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V (TYPE1) |
| C754 | 1-102-233-00 | CERAMIC | 33PF | 10% | 500V |
| C756 | 1-107-583-11 | CERAMIC | 3PF | 0.25PF | 500V |
| C757 | 1-104-658-91 | ELECT | 100uF | 20% | 10V |
| C758 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C761 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C762 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C763 | 1-128-813-11 | CERAMIC | 220PF | 5% | 50V |
| C766 | 1-136-157-00 | FILM | 0.022uF | 5% | 50V |
| C801 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C802 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C803 | 1-126-936-11 | ELECT | 3300uF | 20% | 16V |
| C806 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |

As for the display of type1 and type2, refer to the SERVICE NOTE “Note on replacement POWER AMPLIFIER IC“ .

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C807 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C808 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C811 | 1-136-497-81 | FILM | 0.1uF | 5% | 50V |
| C812 | 1-136-497-81 | FILM | 0.1uF | 5% | 50V |
| C813 | 1-100-968-11 | ELECT | 4700uF | 20% | 63V |
| C814 | 1-100-968-11 | ELECT | 4700uF | 20% | 63V |
| C815 | 1-128-582-11 | ELECT | 10uF | 20% | 100V |
| C816 | 1-128-582-11 | ELECT | 10uF | 20% | 100V |
| C821 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C822 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C823 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C824 | 1-126-947-11 | ELECT | 47uF | 20% | 25V |
| C851 | 1-127-888-11 | CERAMIC | 0.1uF | 10% | 50V |
| C881 | 1-126-934-11 | ELECT | 220uF | 20% | 16V |
| C882 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| | | < CAPACITOR > | | | |
| CC01 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC02 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC03 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC04 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC11 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V (EXCEPT US, CND, MX) |
| CC12 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V (EXCEPT US, CND, MX) |
| CC13 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V (EXCEPT US, CND, MX) |
| CC14 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V (EXCEPT US, CND, MX) |
| CC15 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V (EXCEPT US, CND, MX) |
| CC16 | 1-127-876-11 | CERAMIC | 0.01uF | 10% | 50V (EXCEPT US, CND, MX) |
| CC51 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC52 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC53 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| CC54 | 1-128-809-11 | CERAMIC | 100PF | 5% | 50V (EXCEPT US, CND, MX) |
| | | < CONNECTOR > | | | |
| CN503 | 1-784-925-11 | PIN, CONNECTOR 10P | | | |
| CN504 | 1-779-978-11 | PIN, CONNECTOR 3P | | | |
| | | < CONNECTOR > | | | |
| CNP501 | 1-573-847-11 | CONNECTOR, BOARD TO BOARD 15P | | | |
| * CNP502 | 1-766-715-11 | CONNECTOR, BOARD TO BOARD 10P | | | |
| * CNP901 | 1-564-104-00 | PIN, CONNECTOR (3.96mm PITCH) 3P | | | |
| CNP902 | 1-691-767-11 | PLUG (MICRO CONNECTOR) 5P | | | |
| CNP916 | 1-766-200-11 | SOCKET, CONNECTOR PIN 5P | | | |
| | | < DIODE > | | | |
| D448 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D449 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D501 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D502 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D503 | 8-719-991-33 | DIODE 1SS133T-72 | | | |

# STR-K670P

**Ver. 1.2**

**MAIN**

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D551 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D552 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D601 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D602 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D603 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D651 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D652 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D701 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D702 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D703 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D751 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D752 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D791 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D801 | 8-719-933-95 | DIODE HZS20-1LTA | |
| D802 | 8-719-068-28 | DIODE HZ6.8BP-TK | |
| D804 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | |
| D805 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | |
| D806 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | |
| D807 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | |
| D811 | 8-719-072-05 | DIODE D5SBA20-4003 | |
| D821 | 8-719-043-76 | DIODE AK04V1 | |
| D851 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D881 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D882 | 8-719-991-33 | DIODE 1SS133T-72 | |
| D883 | 8-719-991-33 | DIODE 1SS133T-72 | |
| | | < IC > | |
| IC400 | 6-707-169-01 | IC M61542FP | |
| ★ IC501 | 6-600-450-01 | IC STK350-530-E (TYPE 2) | |
| ★ IC501 | 6-700-943-01 | IC uPC2581V-S (TYPE 1) | |
| IC502 | 8-759-167-88 | IC NJM4565D | |
| ★ IC601 | 6-600-450-01 | IC STK350-530-E (TYPE 2) | |
| ★ IC601 | 6-700-943-01 | IC uPC2581V-S (TYPE 1) | |
| ★ IC701 | 6-600-450-01 | IC STK350-530-E (TYPE 2) | |
| ★ IC701 | 6-700-943-01 | IC uPC2581V-S (TYPE 1) | |
| IC821 | 8-759-071-48 | IC TA7807S | |
| IC822 | 8-759-071-47 | IC TA79007S | |
| IC850 | 8-759-167-88 | IC NJM4565D | |
| | | < JACK > | |
| J401 | 1-770-614-11 | JACK, PIN 4P (VIDEO 1 / VIDEO 2) | |
| J402 | 1-770-614-11 | JACK, PIN 4P (DVD / SA-CD/CD) | |
| J403 | 1-774-785-11 | JACK, PIN 1P (SUB WOOFER) | |
| | | < COIL > | |
| L501 | 1-420-872-52 | COIL, AIR-CORE | |
| L551 | 1-420-872-52 | COIL, AIR-CORE | |
| L601 | 1-420-872-52 | COIL, AIR-CORE | |
| L651 | 1-420-872-52 | COIL, AIR-CORE | |
| L701 | 1-420-872-52 | COIL, AIR-CORE | |
| L751 | 1-420-872-52 | COIL, AIR-CORE | |
| | | < TRANSISTOR > | |
| Q471 | 8-729-922-37 | TRANSISTOR 2SD2144S-TP-UVW | |
| Q501 | 8-729-119-76 | TRANSISTOR 2SA1115TP-EF | |
| Q502 | 8-729-141-30 | TRANSISTOR 2SC3623ATP-LK | |
| Q505 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q506 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q507 | 8-729-281-53 | TRANSISTOR 2SC1815GR-TPE2 | |
| Q508 | 8-729-119-78 | TRANSISTOR 2SC1740S-QRT | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q509 | 8-729-119-78 | TRANSISTOR 2SC1740S-QRT | |
| Q551 | 8-729-119-76 | TRANSISTOR 2SA1115TP-EF | |
| Q552 | 8-729-141-30 | TRANSISTOR 2SC3623ATP-LK | |
| Q555 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q556 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q557 | 8-729-281-53 | TRANSISTOR 2SC1815GR-TPE2 | |
| Q560 | 8-729-119-78 | TRANSISTOR 2SC1740S-QRT | |
| Q601 | 8-729-119-76 | TRANSISTOR 2SA1115TP-EF | |
| Q602 | 8-729-141-30 | TRANSISTOR 2SC3623ATP-LK | |
| Q605 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q606 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q607 | 8-729-281-53 | TRANSISTOR 2SC1815GR-TPE2 | |
| Q608 | 8-729-119-78 | TRANSISTOR 2SC1740S-QRT | |
| Q651 | 8-729-119-76 | TRANSISTOR 2SA1115TP-EF | |
| Q652 | 8-729-141-30 | TRANSISTOR 2SC3623ATP-LK | |
| Q655 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q656 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q657 | 8-729-281-53 | TRANSISTOR 2SC1815GR-TPE2 | |
| Q701 | 8-729-119-76 | TRANSISTOR 2SA1115TP-EF | |
| Q702 | 8-729-141-30 | TRANSISTOR 2SC3623ATP-LK | |
| Q705 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q706 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q707 | 8-729-281-53 | TRANSISTOR 2SC1815GR-TPE2 | |
| Q708 | 8-729-119-78 | TRANSISTOR 2SC1740S-QRT | |
| Q751 | 8-729-119-76 | TRANSISTOR 2SA1115TP-EF | |
| Q752 | 8-729-141-30 | TRANSISTOR 2SC3623ATP-LK | |
| Q755 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q756 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q801 | 8-729-140-97 | TRANSISTOR 2SB734-T-34 | |
| Q851 | 8-729-281-53 | TRANSISTOR 2SC1815GR-TPE2 | |
| Q852 | 8-729-029-40 | TRANSISTOR DTA124ESA-TP | |
| Q881 | 8-729-042-09 | TRANSISTOR 2SA1038S-RSE-TP | |
| Q882 | 8-729-119-78 | TRANSISTOR 2SC1740S-QRT | |
| Q883 | 8-729-140-84 | TRANSISTOR 2SC1841TP-PAFAEA | |
| | | < RESISTOR > | |
| R401 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R402 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R403 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R404 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R406 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R407 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R416 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R449 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R451 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R452 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R453 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R454 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R469 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R471 | 1-249-415-11 | CARBON 680 5% 1/4W | |
| R472 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R473 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R479 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R500 | 1-247-863-91 | CARBON 22K 5% 1/4W | (TYPE 1) |
| R500 | 1-247-871-91 | CARBON 447K 5% 1/4W | (TYPE 2) |
| R501 | 1-247-831-91 | CARBON 1K 5% 1/4W | |
| R502 | 1-249-439-11 | CARBON 68K 5% 1/4W | |
| R503 | 1-249-422-11 | CARBON 2.7K 5% 1/4W | |

★ : When replacing the POWER AMPLIFIER IC (IC501, 601, 701), refer to SERVICE NOTE " NOTE on replacement POWER AMPLIFIER IC " (Page 4), so put the display oftype1 and type2 in there.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R504 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R505 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R506 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R507 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| ⚠R508 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R509 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R510 | 1-234-182-11 | ENCAPSULATED COMPONENT | | | |
| R511 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| ⚠R512 | 1-240-855-81 | CARBON | 6.2K | 5% | 1/4W |
| R513 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R514 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R515 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R516 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R517 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R518 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R519 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R520 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| ⚠R521 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R522 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| ⚠R523 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| ⚠R524 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R525 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R531 | 1-215-868-00 | METAL OXIDE | 680 | 5% | 1W |
| R532 | 1-215-868-00 | METAL OXIDE | 680 | 5% | 1W |
| R551 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R552 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R553 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R554 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R555 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R556 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R557 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| ⚠R558 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R559 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R560 | 1-234-182-11 | ENCAPSULATED COMPONENT | | | |
| R561 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| ⚠R562 | 1-240-855-81 | CARBON | 6.2K | 5% | 1/4W |
| R563 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R564 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R565 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R566 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R567 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R568 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R569 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R570 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| ⚠R571 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R572 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| ⚠R573 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R591 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R593 | 1-247-874-11 | CARBON | 62K | 5% | 1/4W |
| R594 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R595 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R596 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R597 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R600 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W (TYPE 1) |
| R600 | 1-247-871-91 | CARBON | 447K | 5% | 1/4W (TYPE 2) |
| R601 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R602 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |

As for the display of type1 and type2, refer to the SERVICE NOTE “Note on replacement POWER AMPLIFIER IC“ .

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R603 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R604 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R605 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R606 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R607 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| ⚠R608 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R609 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R610 | 1-234-182-11 | ENCAPSULATED COMPONENT | | | |
| R611 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| ⚠R612 | 1-240-855-81 | CARBON | 6.2K | 5% | 1/4W |
| R613 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R614 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R615 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R616 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R617 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R618 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R619 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R620 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| ⚠R621 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R622 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| ⚠R623 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| ⚠R624 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R625 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R651 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R652 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R653 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R654 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R655 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R656 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R657 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| ⚠R658 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R659 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R660 | 1-234-182-11 | ENCAPSULATED COMPONENT | | | |
| R661 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| ⚠R662 | 1-240-855-81 | CARBON | 6.2K | 5% | 1/4W |
| R663 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R664 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R665 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R666 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R667 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R668 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R669 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R670 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| ⚠R671 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R672 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| ⚠R673 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R700 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W (TYPE 1) |
| R700 | 1-247-871-91 | CARBON | 447K | 5% | 1/4W (TYPE 2) |
| R701 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R702 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R703 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R704 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R705 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R706 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R707 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| ⚠R708 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R709 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R710 | 1-234-182-11 | ENCAPSULATED COMPONENT | | | |
| R711 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |

# STR-K670P

**Ver. 1.3**

**MAIN** **POWER** **STANDBY**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| ⚠R712 | 1-240-855-81 | CARBON | 6.2K | 5% | 1/4W |
| R713 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R714 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R715 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R716 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R717 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R718 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R719 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R720 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| ⚠R721 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R722 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| ⚠R723 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| ⚠R724 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R725 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R751 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R752 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R753 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R754 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| R755 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R756 | 1-249-440-11 | CARBON | 82K | 5% | 1/4W |
| R757 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| ⚠R758 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R759 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| ⚠R760 | 1-234-182-11 | ENCAPSULATED COMPONENT | | | |
| R761 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| R762 | 1-240-855-81 | CARBON | 6.2K | 5% | 1/4W |
| R763 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R764 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R765 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R766 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| R770 | 1-249-439-11 | CARBON | 68K | 5% | 1/4W |
| ⚠R771 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R772 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| ⚠R773 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R780 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| R783 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| R791 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| ⚠R793 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| ⚠R802 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| ⚠R803 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R804 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R806 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |
| ⚠R815 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W |
| ⚠R816 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W |
| R851 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R852 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R853 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R854 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R855 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R856 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W |
| R857 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R858 | 1-215-888-00 | METAL OXIDE | 220 | 5% | 2W (MX : TYPE 2) |
| R858 | 1-215-889-00 | METAL OXIDE | 330 | 5% | 2W (E51 : TYPE 2) |
| R858 | 1-216-452-11 | METAL OXIDE | 180 | 5% | 2W (E51 : TYPE 1) |
| R858 | 1-216-453-00 | METAL OXIDE | 270 | 5% | 2W (EXCEPT E51, MX : TYPE 2) |
| R859 | 1-215-888-00 | METAL OXIDE | 220 | 5% | 2W (E51 : TYPE 1, TYPE2) |
| R859 | 1-215-889-00 | METAL OXIDE | 330 | 5% | 2W (EXCEPT E51, MX : TYPE 1) |
| R859 | 1-216-453-00 | METAL OXIDE | 270 | 5% | 2W (MX : TYPE 1) |
| R882 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R883 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R884 | 1-249-436-11 | CARBON | 39K | 5% | 1/4W |
| R885 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| ⚠R910 | 1-243-635-11 | FUSIBLE | 0.33 | 5% | 1/2W |
| | | < RESISTOR > | | | |
| RR11 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (EXCEPT US, CND, MX) |
| RR12 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (EXCEPT US, CND, MX) |
| RR13 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (EXCEPT US, CND, MX) |
| RR14 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (EXCEPT US, CND, MX) |
| RR15 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (EXCEPT US, CND, MX) |
| RR16 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W (EXCEPT US, CND, MX) |
| | | < RELAY > | | | |
| RY501 | 1-755-416-12 | RELAY | | | |
| RY502 | 1-755-416-12 | RELAY | | | |
| RY601 | 1-755-416-12 | RELAY | | | |
| RY701 | 1-755-416-12 | RELAY | | | |
| RY702 | 1-755-267-11 | RELAY | | | |
| | | < TERMINAL > | | | |
| TM600 | 1-694-805-11 | TERMINAL BOARD (FRONT / CENTER) | | | |
| TM601 | 1-694-805-11 | TERMINAL BOARD (SURROUND / SUB WOOFER) | | | |
| ********** | | | | | |
| | | POWER BOARD | | | |
| | | ********** | | | |
| | | < RESISTOR > | | | |
| R115 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| | | < SWITCH > | | | |
| S114 | 1-771-410-21 | SWITCH, TACTILE (DISPLAY) | | | |
| S115 | 1-771-410-21 | SWITCH, TACTILE (DIMMER) | | | |
| S152 | 1-771-410-21 | SWITCH, TACTILE (**I**/⏻) | | | |
| ********** | | | | | |
| | A-1082-613-A | STANDBY BOARD, COMPLETE (US, CND) | | | |
| | A-1083-592-A | STANDBY BOARD, COMPLETE (EXCEPT US, CND, E51, MX) | | | |
| | A-1083-669-A | STANDBY BOARD, COMPLETE (MX) | | | |
| | A-1083-980-A | STANDBY BOARD, COMPLETE (E51) | | | |
| U | A-1148-678-A | STANDBY BOARD, COMPLETE (AR) | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C901 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C902 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C911 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C912 | 1-135-798-11 | CERAMIC | 0.22uF | | 50V |
| C913 | 1-126-959-11 | ELECT | 0.47uF | 20% | 50V |

As for the display of type1 and type2, refer to the SERVICE NOTE “Note on replacement POWER AMPLIFIER IC“ .

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C914 | 1-126-936-11 | ELECT | 3300uF | 20% | 16V |
| C915 | 1-126-943-11 | ELECT | 2200uF | 20% | 25V |
| C916 | 1-126-942-61 | ELECT | 1000uF | 20% | 25V |
| | | < CONNECTOR > | | | |
| CNP801 | 1-784-922-11 | PIN, CONNECTOR 5P | | | |
| CNP900 | 1-564-321-00 | PIN, CONNECTOR (3.96mm PITCH) 2P | | | |
| CNP903 | 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| CNP904 | 1-794-577-21 | PIN, CONNECTOR (POWER) | | | |
| CNP906 | 1-766-203-11 | PLUG, CONNECTOR PIN (PC BOARD) 5P | | | |
| | | < DIODE > | | | |
| D901 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D910 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D911 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D912 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D913 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D914 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D915 | 8-719-991-33 | DIODE 1SS133T-72 | | | |
| D920 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D921 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D922 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| D923 | 6-500-522-11 | DIODE 10EDB40-TA2B5 | | | |
| | | < FUSE HOLDER > | | | |
| FH902 | 1-533-217-41 | HOLDER, FUSE | | | |
| FH952 | 1-533-217-41 | HOLDER, FUSE | | | |
| | | < GROUND TERMINAL > | | | |
| G901 | 1-537-738-21 | TERMINAL, GROUND (US, CND) | | | |
| | | < TRANSISTOR > | | | |
| Q901 | 8-729-119-78 | TRANSISTOR | 2SC1740S-QRT | | |
| Q911 | 8-729-119-78 | TRANSISTOR | 2SC1740S-QRT | | |
| | | < RESISTOR > | | | |
| ⚠R810 | 1-243-634-91 | FUSIBLE | 0.22 | 5% | 1/2W |
| ⚠R812 | 1-243-634-91 | FUSIBLE | 0.22 | 5% | 1/2W |
| ⚠R900 | 1-219-237-91 | SOLID | 3.3M | 20% | 1/2W (US, CND) |
| R903 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| R904 | 1-247-847-91 | CARBON | 4.7K | 5% | 1/4W |
| ⚠R905 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W |
| R911 | 1-247-871-91 | CARBON | 47K | 5% | 1/4W |
| R912 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R913 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| | | < RELAY > | | | |
| ⚠RY901 | 1-755-439-11 | RELAY | | | |
| | | < TRANSFORMER > | | | |
| ⚠T902 | 1-443-516-11 | POWER TRANSFORMER (US, CND) | | | |
| ⚠T902 | 1-443-517-11 | POWER TRANSFORMER (EXCEPT US, CND, E51, MX) | | | |
| ⚠T902 | 1-443-518-11 | POWER TRANSFORMER (MX) | | | |
| ⚠T902 | 1-443-520-11 | POWER TRANSFORMER (E51) | | | |

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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | TUNING BOARD | | | |
| | | ********** | | | |
| | | < RESISTOR > | | | |
| R132 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R133 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R134 | 1-247-831-91 | CARBON | 1K | 5% | 1/4W |
| R135 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R136 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| | | < SWITCH > | | | |
| S131 | 1-771-410-21 | SWITCH, TACTILE (–(TUNING) | | | |
| S132 | 1-771-410-21 | SWITCH, TACTILE (FM MODE) | | | |
| S133 | 1-771-410-21 | SWITCH, TACTILE (MEMORY) | | | |
| S134 | 1-771-410-21 | SWITCH, TACTILE (–(PRESET TUNING) | | | |
| S135 | 1-771-410-21 | SWITCH, TACTILE (+(PRESET TUNING) | | | |
| S136 | 1-771-410-21 | SWITCH, TACTILE (+(TUNING) | | | |

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| | | | | | |
|---|---|---|---|---|---|
| | | MISCELLANEOUS | | | |
| | | ********** | | | |
| ⚠59 | 1-777-071-23 | CORD, POWER (EXCEPT US, CND, MX, AUS) | | | |
| ⚠59 | 1-783-820-11 | CORD, POWER (US, CND) | | | |
| ⚠59 | 1-783-941-12 | CORD, POWER (AR) | | | |
| ⚠59 | 1-827-295-22 | CORD, POWER (AUS) | | | |
| ⚠59 | 1-829-627-11 | POWER-SUPPLY CORD (MX) | | | |
| 61 | 1-828-963-11 | WIRE (FLAT TYPE) (11 CORE) (EXCEPT AEP, UK, RU) | | | |
| 61 | 1-828-980-11 | WIRE (FLAT TYPE) (15 CORE) (AEP, UK, RU) | | | |
| ⚠F901 | 1-532-464-32 | FUSE 2.5A/250V (E51) | | | |
| ⚠F901 | 1-532-503-32 | FUSE T1.6AL/250V (EXCEPT US, CND, E51, MX, AR) | | | |
| ⚠F901 | 1-532-503-33 | FUSE T1.6AL/250V (AR) | | | |
| ⚠F901 | 1-533-452-12 | FUSE, GLASS TUBE (DIA. 5) 4A/125V (US, CND) | | | |
| ⚠F901 | 1-533-468-12 | FUSE, GLASS TUBE (DIA. 5) 2A/250V (MX) | | | |
| Q503 | 6-702-390-01 | IC MN2488-OPY-MK | | | |
| Q504 | 6-702-391-01 | IC MP1620-OPY-MK | | | |
| Q553 | 6-702-390-01 | IC MN2488-OPY-MK | | | |
| Q554 | 6-702-391-01 | IC MP1620-OPY-MK | | | |
| Q603 | 6-702-390-01 | IC MN2488-OPY-MK | | | |
| Q604 | 6-702-391-01 | IC MP1620-OPY-MK | | | |
| Q653 | 6-702-390-01 | IC MN2488-OPY-MK | | | |
| Q654 | 6-702-391-01 | IC MP1620-OPY-MK | | | |
| Q703 | 6-702-390-01 | IC MN2488-OPY-MK | | | |
| Q704 | 6-702-391-01 | IC MP1620-OPY-MK | | | |
| Q753 | 6-702-390-01 | IC MN2488-OPY-MK | | | |
| Q754 | 6-702-391-01 | IC MP1620-OPY-MK | | | |
| ⚠T901 | 1-443-185-11 | POWER TRANSFORMER (US, CND) | | | |
| ⚠T901 | 1-443-186-11 | POWER TRANSFORMER (E51) | | | |
| ⚠T901 | 1-443-521-11 | POWER TRANSFORMER (MX) | | | |
| ⚠T901 | 1-443-629-11 | POWER TRANSFORMER (EXCEPT US, CND, E51, MX) | | | |
| TN1 | 1-693-675-11 | TUNER UNIT (MX, AR) | | | |
| TN1 | 1-693-675-21 | TUNER UNIT (US, CND, E51) | | | |
| TN1 | 1-693-676-21 | TUNER UNIT (AEP, UK, RU) | | | |
| TN1 | 1-693-678-11 | TUNER UNIT (SP, SP6, AUS) | | | |

*MEMO*

# STR-K670P

SONY

# SERVICE MANUAL

Ver. 1.2 2006.04

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*
*Australian Model*

# SUPPLEMENT-1

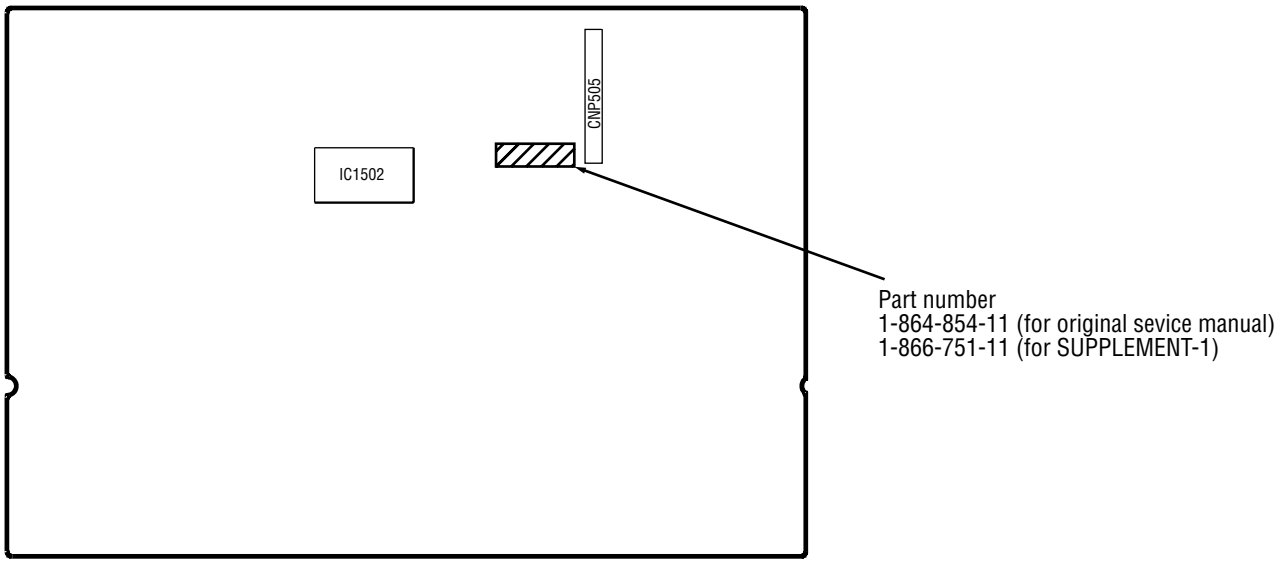
**Subject: DIGITAL board changed to 1-866-751-11 from 1-864-854-11 on part number**

Part number of printed wiring board changed to 1-866-751-11 from 1-864-854-11.
It has any difference between part mumber 1-864-854-11 and part number 1-866-751-11.
This supplement-1 describes the difference in the two boards.
Refer to original service manual (9-879-447-0□) for other information.

- **How to distinguish**

Location of parts number on changed printed wiring board

**DIGITAL BOARD (SIDE A)**

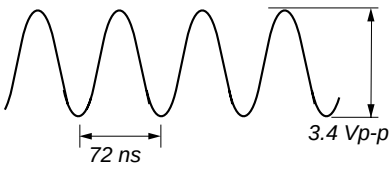


## THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this, the necessary note is printed in each block.)

**For Schematic Diagrams.**
**Note:**

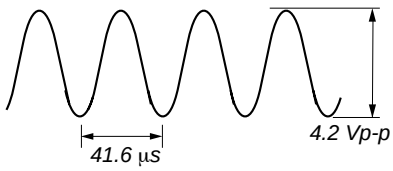
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.
- : B+ Line.
- : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : ANALOG
  : DIGITAL
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia models
- **Waveforms**

**(11) IC1501 (9) (MCLK1)**



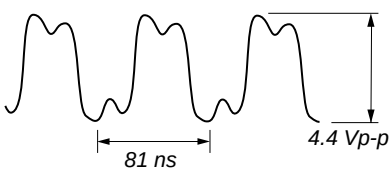

*1 V/DIV, 40 ns/DIV*

**(12) IC1101 (83) (X1)**




*1 V/DIV, 20 ns/DIV*

**(13) IC1301 (22) (XIN)**

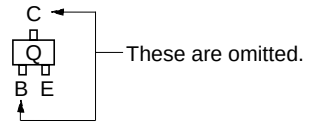


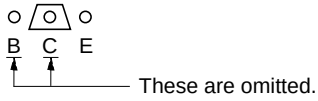

*1 V/DIV, 40 ns/DIV*

**For Printed Wiring Boards.**
**Note:**

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

- Indication of transistor.

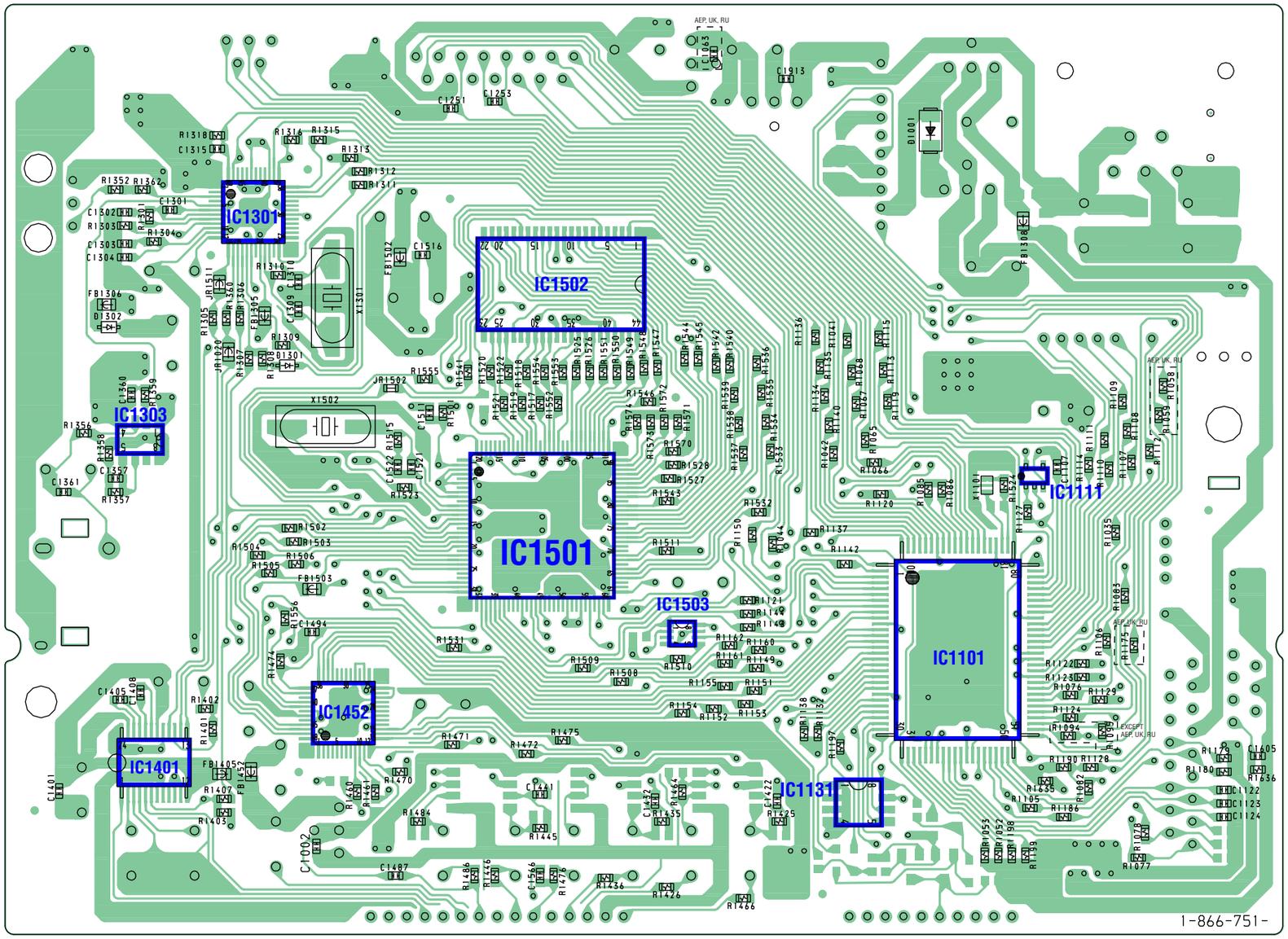



| Caution: | |
|---|---|
| Pattern face side: (Side B) | Parts on the pattern face side seen from the pattern face are indicated. |
| Parts face side: (Side A) | Parts on the parts face side seen from the parts face are indicated. |

**PRINTED WIRING BOARD – DIGITAL BOARD (SIDE A) –** :Uses unleaded solder. • **See page 11 for Circuit Boards Location.**

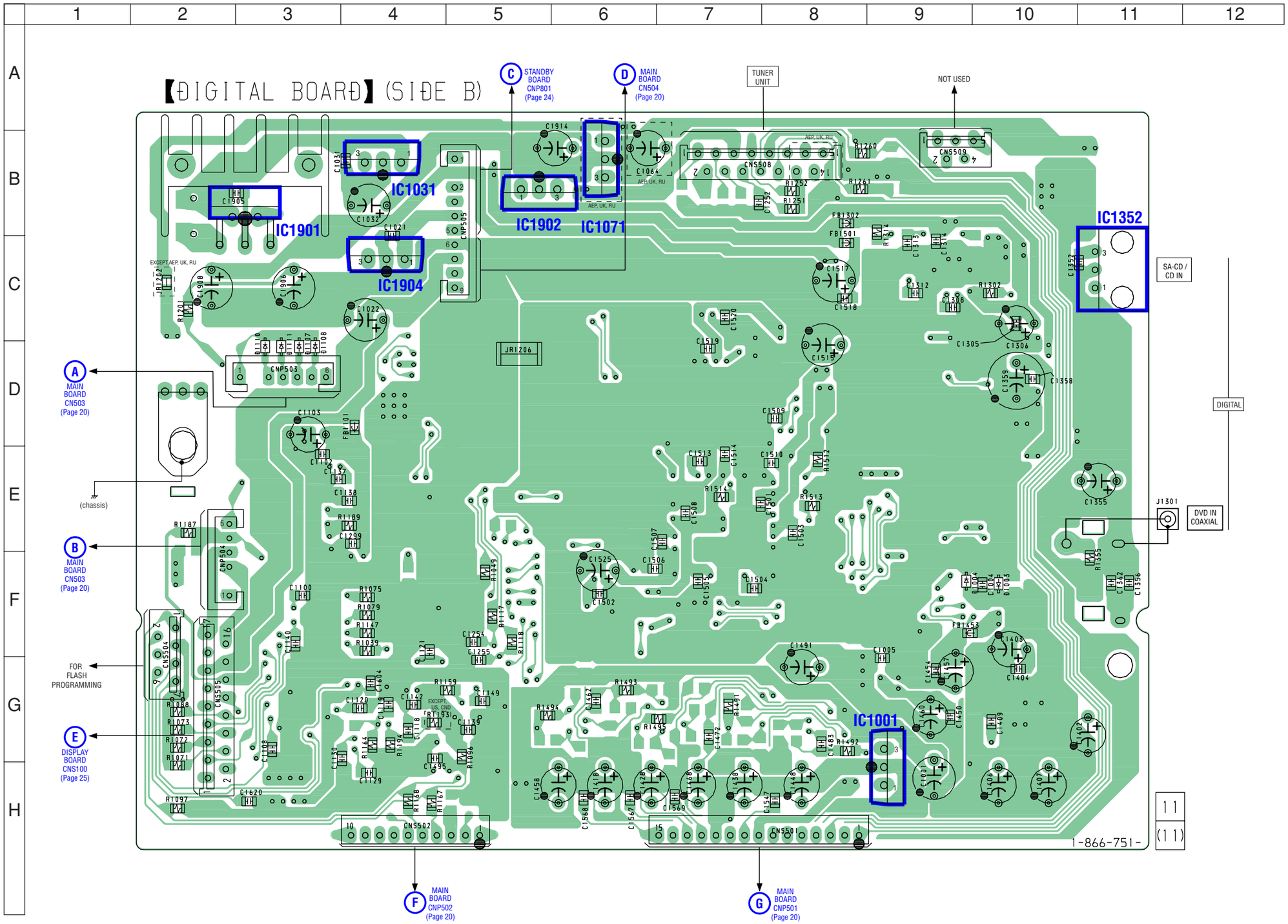
【DIGITAL BOARD】(SIDE A)




- **Semiconductor**

| Ref. No. | Location |
|---|---|
| D1001 | B-8 |
| D1301 | D-3 |
| D1302 | D-2 |
| IC1101 | F-8 |
| IC1111 | E-9 |
| IC1131 | G-7 |
| IC1301 | C-3 |
| IC1303 | D-2 |
| IC1401 | G-2 |
| IC1452 | G-4 |
| IC1501 | E-5 |
| IC1502 | C-5 |
| IC1503 | F-6 |

**PRINTED WIRING BOARD – DIGITAL BOARD (SIDE B) –** :Uses unleaded solder. • **See page 11 for Circuit Boards Location.**

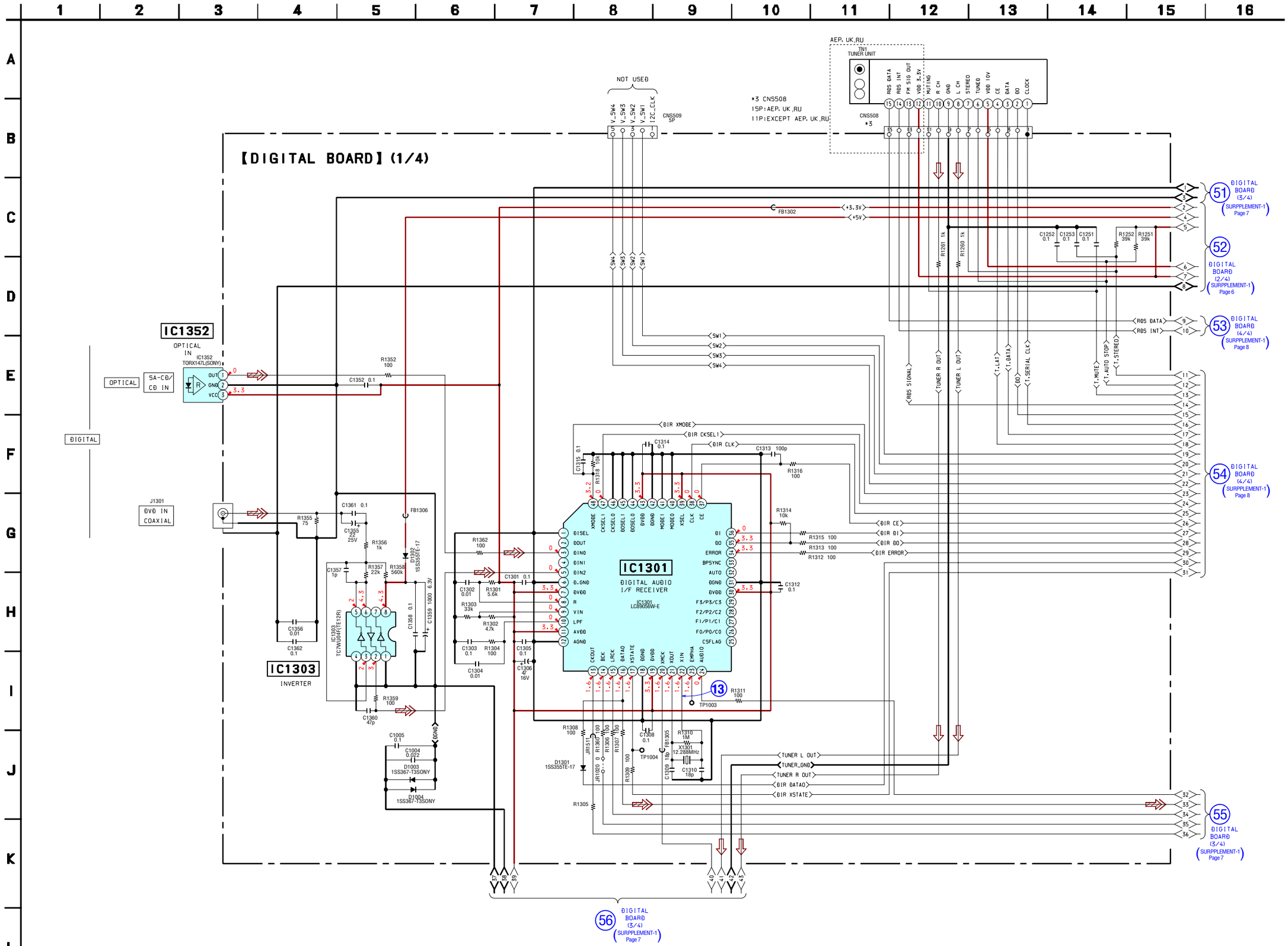



- **Semiconductor Location**

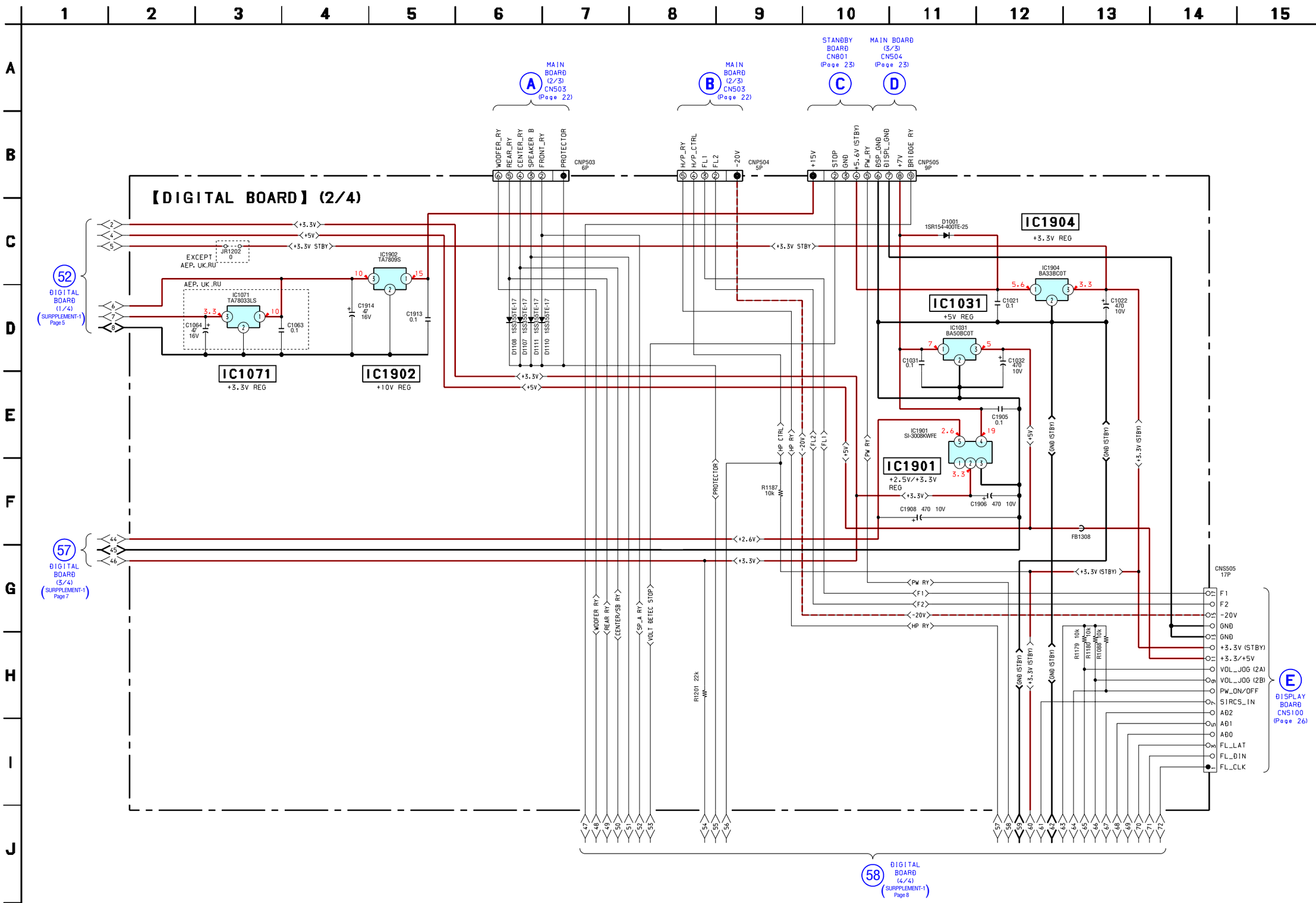
| Ref. No. | Location |
|---|---|
| D1003 | F-10 |
| D1004 | F-10 |
| D1107 | D-3 |
| D1108 | D-3 |
| D1110 | D-3 |
| D1111 | D-3 |
| | |
| IC1001 | G-9 |
| IC1031 | B-4 |
| IC1071 | B-6 |
| IC1352 | B-11 |
| IC1901 | B-3 |
| IC1902 | B-5 |
| IC1904 | C-4 |

**SCHEMATIC DIAGRAM – DIGITAL BOARD (1/4) –**

**• See page 2 (SUPPLEMENT-1) for Waveform.**

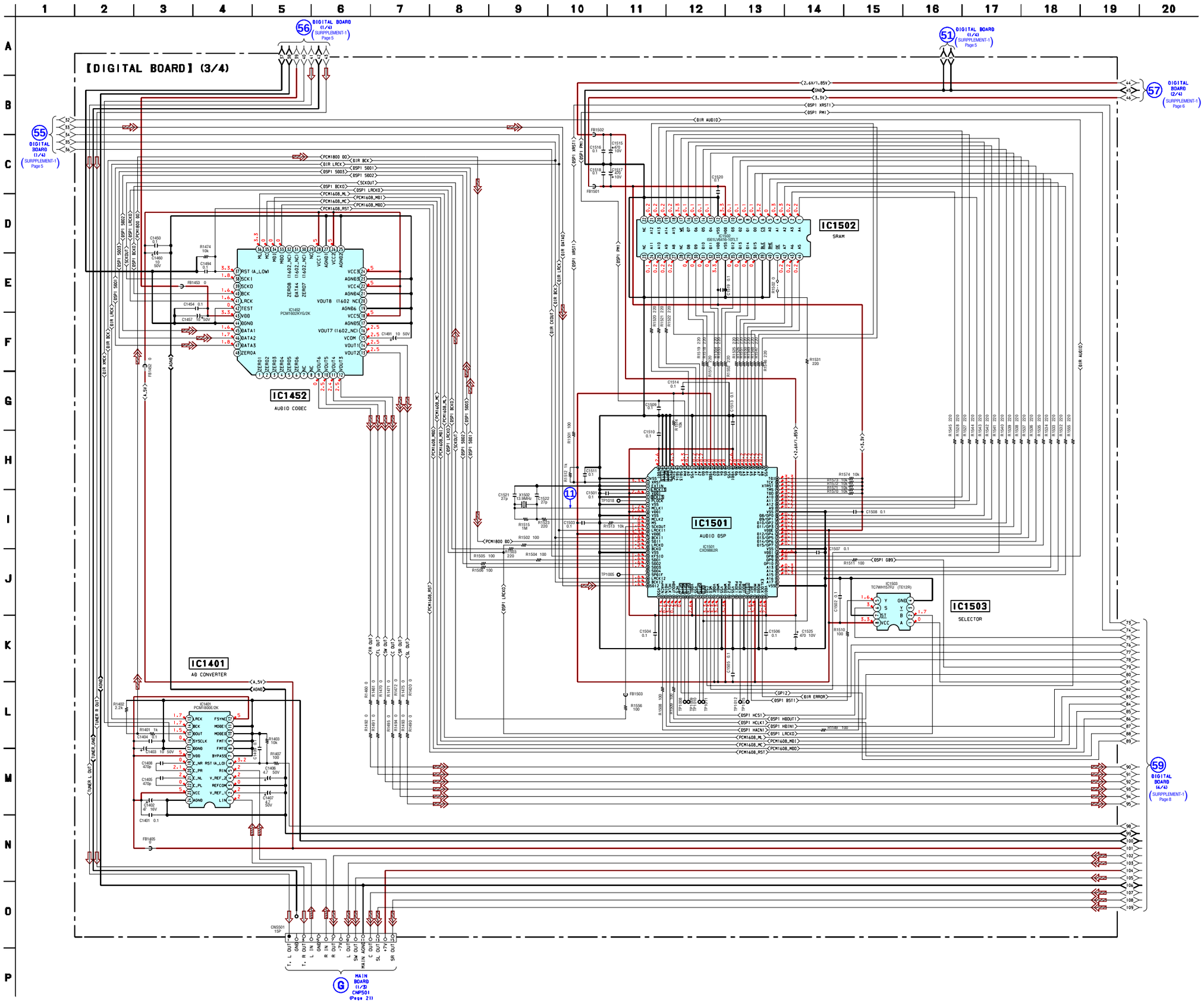


## SCHEMATIC DIAGRAM – DIGITAL BOARD (2/4) –



## SCHEMATIC DIAGRAM – DIGITAL BOARD (3/4) –

• See page 2 (SUPPLEMENT-1) for Waveform.



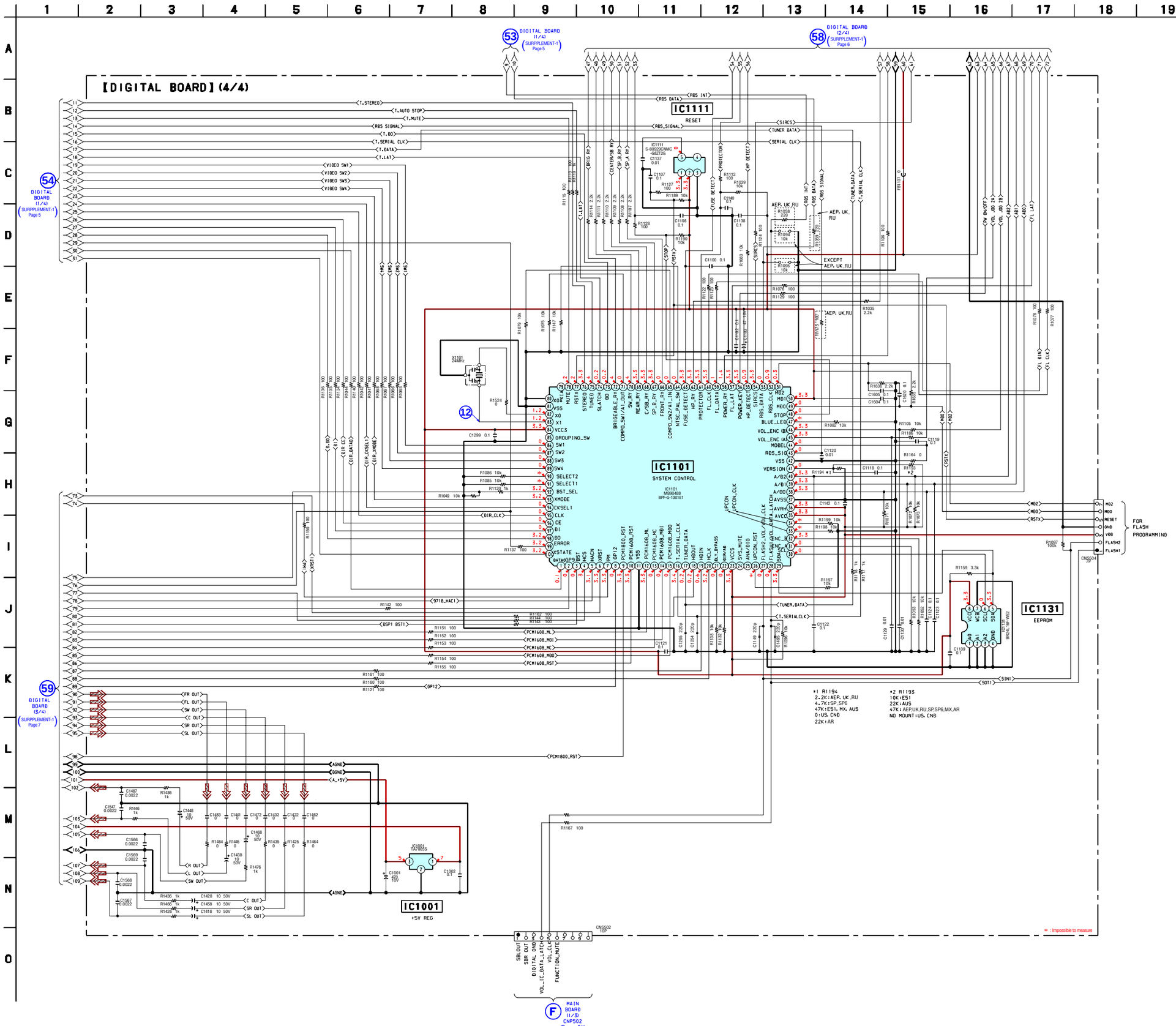
# STR-K670P

**Ver. 1.3**

**SCHEMATIC DIAGRAM – DIGITAL BOARD (4/4) –**

• See page 2 (SUPPLEMENT-1) for Waveform.

• See page 9 (SUPPLEMENT-1) for IC Pin Function Description.



**• IC Pin Function Description**

**DIGITAL BOARD IC1101 MB90488BPF-G-130E1 (SYSTEM CONTROL)**

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 1 | DATAO | I | Audio data signal input from DIR |
| 2 | GP9 | I | GP9 signal input from DSP |
| 3 | BST | O | BST signal output to DSP |
| 4 | HCS | O | HCS signal output to DSP |
| 5 | HACN | I | HACN signal input from DSP |
| 6 | XRST | O | Reset signal output to DSP |
| 7 | PM | O | PM signal output to DSP |
| 8 | GP12 | O | GP12 signal output to DSP |
| 9 | PCM1800_RST | O | IC reset signal output to ADC |
| 10 | PCM1608_RST | O | IC reset signal output to DAC |
| 11 | VSS | — | Ground terminal |
| 12 | PCM1608_ML | O | Latch signal output to DAC |
| 13 | PCM1608_MC | O | Clock signal output to DAC |
| 14 | PCM1608_MDI | O | IC data output to DAC |
| 15 | PCM1608_MDO | I | IC data input to DAC |
| 16 | T.SERIAL_CLK | O | Tuner clock signal output terminal |
| 17 | TUNER_DATA | O | Tuner data signal output terminal |
| 18 | HDOUT | I | HDOUT signal input from DSP |
| 19 | HDIN | O | HDIN signal output to DSP |
| 20 | HCLK | O | Clock signal output to DSP |
| 21 | DLY_BYPASS | — | Connected to ground terminal |
| 22 | DIR/AD | — | Connected to ground terminal |
| 23 | VCC5 | — | Power supply |
| 24 | SYS_MUTE | O | Muting and error signal output |
| 25 | ANA/DIG | — | Analog signal or digital signal output terminal (Not used) |
| 26 | UPCON_RST | — | Not used |
| 27 | FLASH2_VOL/VOL_CLK | O | Volume IC clock signal output terminal |
| 28 | FLASH1_VOL/VOL_DATA_LATCH | O | Volume IC data and latch signal output terminal |
| 29 | SDA | I | EEPROM data signal input terminal |
| 30 | SCL | O | EEPROM clock signal output terminal |
| 31 | ENC_A | — | Short to ground terminal |
| 32 | ENC_B | — | Short to ground terminal |
| 33 | UPCON | — | Not used |
| 34 | UPCON_CLK | — | Not used |
| 35 | AVCC | — | Analog power supply |
| 36 | AVRH | I | Analog reference voltage input |
| 37 | AVSS | — | Analog ground terminal |
| 38 | A/D0 | I | Function key push signal input |
| 39 | A/D1 | I | Function key push signal input |
| 40 | A/D2 | I | Function key push signal input |
| 41 | VERSION | I | Version setting input terminal (DESTINATION) |
| 42 | VSS | — | Ground terminal |
| 43 | RDS SIG | I | RDS signal detect input |
| 44 | MODEL | I | Version setting input (MODEL) |
| 45 | VOL_ENC (A) | I | Volume signal input from rotary encoder |
| 46 | VOL_ENC (B) | I | Volume signal input from rotary encoder |
| 47 | BLUE_LED | — | Not used |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 48 | STOP | I | AC off detect signal input |
| 49 | MD0 | I | Operation mode setting input |
| 50 | MD1 | I | Operation mode setting input |
| 51 | MD2 | I | Operation mode setting input |
| 52 | RDS_CLK | I | RDS clock signal input (Not used) |
| 53 | RDS_DATA | I | RDS data signal input (Not used) |
| 54 | SIRCS | I | Data signal input from the remote control sensor |
| 55 | HP_DETECT | I | Headphone signal input |
| 56 | POWER_KEY | I | Power switch key detect signal input |
| 57 | FL_LAT | O | FL driver latch signal output terminal |
| 58 | POWER_RY | O | Power relay control signal output |
| 59 | FL_DATA | O | FL driver signal output terminal |
| 60 | FL_CLK | O | FL driver clock signal output terminal |
| 61 | PROTECTOR | I | Protector status detect signal input |
| 62 | HP_RY | O | Headphone relay control signal output |
| 63 | FUSE DETECT | I | Fuse detect signal input |
| 64 | NTSC_PAL_SW | — | Short to ground terminal |
| 65 | COMPO_SW2/A1_IN\\ | — | Short to ground terminal |
| 66 | FRONT_RY | O | Front speaker relay control signal output |
| 67 | SP_B_RY | O | Front speaker B relay control signal output |
| 68 | C/SB_RY | O | Center speaker or Subwoofer control signal output |
| 69 | REAR_RY | O | Rear speaker relay control signal output |
| 70 | SW_RY | — | Short to ground terminal |
| 71 | COMPO_SW1/A1_OUT | — | Short to ground terminal |
| 72 | BRIGEABLE_RY | O | Bridgeable relay control |
| 73 | DO | I | Frequency data signal input from the tuner |
| 74 | SLATCH | O | Latch signal output to the tuner |
| 75 | TUNED | I | Tuning a frequency signal input from the tuner |
| 76 | STEREO | I | Stereo tuning signal input from the tuner |
| 77 | RSTX | I | System reset |
| 78 | MUTE | O | Muting signal output to the tuner |
| 79 | X1A | — | Not used |
| 80 | X0A | — | Ground terminal |
| 81 | VSS | — | Ground terminal |
| 82 | X0 | — | Connection for a crystal resonator |
| 83 | X1 | — | Connection for a crystal resonator |
| 84 | VCC3 | — | Power supply |
| 85 | GROUPING_SW | — | Not used |
| 86 | SW1 | O | Video select control signal output |
| 87 | SW2 | O | Video select control signal output |
| 88 | SW3 | O | Video select control signal output |
| 89 | SW4 | O | Video select control signal output |
| 90 | SELECT2 | — | Not used |
| 91 | SELECT1 | — | Not used |
| 92 | BST_SEL | O | BST signal output terminal |
| 93 | XMODE | O | Reset signal output to DIR |
| 94 | CKSEL 1 | O | CKSEL control signal to DIR |
| 95 | CLK | O | Clock signal output to DIR |
| 96 | CE | O | Chip enable signal output to DIR |

| Pin No. | Pin Name | I/O | Description |
|---|---|---|---|
| 97 | DI | O | Data signal output to DIR |
| 98 | DO | I | Data signal input from DIR |
| 99 | ERROR | I | PLL error muting signal input from DIR |
| 100 | XSTATE | I | XSTATE data signal input from DIR |

# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. ., uPA. . : µPA. .,
  uPB. . : µPB. ., uPC. . : µPC. .,
  uPD. . : µPD. .

When indicating parts by reference number, please include the board name.

- Abbreviation
  AR : Argentina mondel
  AUS : Australian model
  CND : Canadian model
  E51 : Chilean and Peruvian models
  MX : Mexican model
  RU : Russian model
  SP : Singapore model
  SP6 : Singapore and Malaysia model

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | A-1082-618-A | DIGITAL BOARD, COMPLETE (US, CND) | | | |
| | A-1083-438-A | DIGITAL BOARD, COMPLETE (AEP, UK, RU) | | | |
| | A-1083-593-A | DIGITAL BOARD, COMPLETE (SP, SP6) | | | |
| | A-1083-642-A | DIGITAL BOARD, COMPLETE (AUS) | | | |
| | A-1083-670-A | DIGITAL BOARD, COMPLETE (MX) | | | |
| | A-1083-982-A | DIGITAL BOARD, COMPLETE (E51) | | | |
| | A-1148-681-A | DIGITAL BOARD, COMPLETE (AR) | | | |
| | | ********** | | | |
| | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 IT-3 | | | |
| | | < CAPACITOR > | | | |
| C1001 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1002 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1004 | 1-164-227-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C1005 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1021 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1022 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1031 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1032 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1063 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V (AEP, UK, RU) |
| C1064 | 1-126-947-11 | ELECT | 47uF | 20% | 35V (AEP, UK, RU) |
| C1100 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1102 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1103 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C1107 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1108 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1118 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1119 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1120 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C1121 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1122 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1123 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1124 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1129 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C1130 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C1137 | 1-162-970-11 | CERAMIC CHIP | 0.01uF | 10% | 25V |
| C1138 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1139 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1140 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1142 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1149 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C1251 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1252 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1253 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1254 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C1255 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C1299 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1301 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1302 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C1303 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1304 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C1305 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1306 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C1308 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1309 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C1310 | 1-162-918-11 | CERAMIC CHIP | 18PF | 5% | 50V |
| C1312 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1313 | 1-162-927-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1314 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1315 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1352 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1355 | 1-104-662-91 | ELECT | 22uF | 20% | 25V |
| C1356 | 1-162-974-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C1357 | 1-162-905-11 | CERAMIC CHIP | 1PF | 0.25PF | 50V |
| C1358 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1359 | 1-126-916-11 | ELECT | 1000uF | 20% | 6.3V |
| C1360 | 1-162-923-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C1361 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1362 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1401 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1402 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| C1403 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1404 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1405 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1406 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C1407 | 1-126-963-11 | ELECT | 4.7uF | 20% | 50V |
| C1408 | 1-162-962-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1409 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1418 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1422 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1428 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1432 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1438 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1441 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1448 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1450 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1454 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1457 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1458 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1460 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C1462 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1468 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1472 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1483 | 1-216-864-11 | SHORT CHIP | 0 | | |
| C1487 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1491 | 1-126-964-11 | ELECT | 10uF | 20% | 50V |
| C1494 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1495 | 1-162-960-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C1501 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1502 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1503 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1504 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1505 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1506 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1507 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1508 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1509 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1510 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1511 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1513 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1514 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1515 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1516 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1517 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1518 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1519 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1520 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1521 | 1-162-920-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C1522 | 1-162-920-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C1525 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1547 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1566 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1567 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1568 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1569 | 1-162-966-11 | CERAMIC CHIP | 0.0022uF | 10% | 50V |
| C1604 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1605 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1620 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1905 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1906 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1908 | 1-126-925-91 | ELECT | 470uF | 20% | 10V |
| C1913 | 1-100-566-91 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C1914 | 1-126-947-11 | ELECT | 47uF | 20% | 35V |
| | | < CONNECTOR > | | | |
| CNP503 | 1-779-977-11 | PIN, CONNECTOR 6P | | | |
| CNP504 | 1-784-922-11 | PIN, CONNECTOR 5P | | | |
| CNP505 | 1-779-799-11 | PIN, CONNECTOR 9P | | | |
| CNS501 | 1-573-829-11 | CONNECTOR, BOARD TO BOARD 15P | | | |
| CNS502 | 1-766-719-41 | CONNECTOR, BOARD TO BOARD 10P | | | |
| CNS504 | 1-568-826-11 | CONNECTOR, FFC 7P | | | |
| CNS505 | 1-784-778-11 | CONNECTOR, FFC 17P | | | |
| CNS508 | 1-568-830-11 | CONNECTOR, FFC 11P (EXCEPT AEP, UK, RU) | | | |
| CNS508 | 1-784-776-11 | CONNECTOR, FFC 15P (AEP, UK, RU) | | | |
| CNS509 | 1-784-766-11 | CONNECTOR, FFC 5P | | | |
| | | < DIODE > | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| D1001 | 8-719-053-18 | DIODE 1SR154-400TE-25 | | | |
| D1003 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D1004 | 8-719-049-09 | DIODE 1SS367-T3SONY | | | |
| D1107 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1108 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1110 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1111 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1301 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| D1302 | 8-719-988-61 | DIODE 1SS355TE-17 | | | |
| | | < FERRITE BEAD > | | | |
| FB1101 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1302 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1305 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1306 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1308 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1405 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1452 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1453 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1501 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1502 | 1-400-862-11 | BEAD, FERRITE | | | |
| FB1503 | 1-400-862-11 | BEAD, FERRITE | | | |
| | | < IC > | | | |
| IC1001 | 8-759-231-53 | IC TA7805S | | | |
| IC1031 | 6-705-464-01 | IC BA50BC0T | | | |
| IC1071 | 6-702-771-01 | IC TA78033LS (AEP, UK, RU) | | | |
| IC1101 | 6-805-857-01 | MB90488BPF-G-130E1 | | | |
| IC1111 | 6-702-913-01 | IC S-80929CNMC-G8ZT2G | | | |
| IC1131 | 6-704-004-01 | IC BR24L16F-WE2 | | | |
| IC1301 | 8-759-825-15 | IC LC89056W-E | | | |
| IC1303 | 8-759-242-70 | IC TC7WU04F | | | |
| IC1352 | 6-600-466-01 | IC TORX147L (SONY) (SA-CD/CD-IN//DIGITAL) | | | |
| IC1401 | 8-759-560-56 | IC PCM1800E/2K | | | |
| IC1452 | 6-705-022-01 | IC PCM1602KYG/2K | | | |
| IC1501 | 6-707-754-01 | IC CXD9862R | | | |
| IC1502 | 6-704-832-01 | IC IS61LV6416-10TLT | | | |
| IC1503 | 8-759-546-74 | IC TC7WH157FU (TE12R) | | | |
| IC1901 | 6-707-168-01 | IC SI-3008KWFE | | | |
| IC1902 | 8-759-701-59 | IC NJM78M09FA | | | |
| IC1904 | 6-705-463-01 | IC BA33BC0T | | | |
| | | < JACK > | | | |
| J1301 | 1-794-972-11 | JACK, PIN 1P (DVD IN/COAXIAL//DIGITAL) | | | |
| | | < JUMPER RESISTOR > | | | |
| JR1020 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JR1202 | 1-216-864-11 | SHORT CHIP | 0 (EXCEPT AEP, UK, RU) | | |
| JR1206 | 1-211-950-11 | SHORT CHIP | 0 | | |
| JR1502 | 1-216-864-11 | SHORT CHIP | 0 | | |
| JR1511 | 1-400-862-11 | BEAD, FERRITE | | | |
| | | < RESISTOR > | | | |
| R1035 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1039 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1041 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1042 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1044 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1049 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1052 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1053 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1058 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W (AEP, UK, RU) |
| R1059 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W (AEP, UK, RU) |
| R1065 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1066 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1067 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1068 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1071 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1072 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1073 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1075 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1076 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1077 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1078 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1079 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1082 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1083 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1085 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1086 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1088 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1094 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (EXCEPT AEP, UK, RU) |
| R1095 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (EXCEPT AEP, UK, RU) |
| R1096 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1097 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R1105 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1106 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1107 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1108 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1109 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1110 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1111 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1112 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1113 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1114 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1115 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1117 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1118 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1119 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1120 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1121 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1122 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1123 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1124 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1127 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1128 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1129 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1132 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1134 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1135 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1136 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1137 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1138 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1140 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1142 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1143 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1144 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1147 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1149 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1150 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1151 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1152 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1153 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1154 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1155 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1159 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R1160 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1161 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1162 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1164 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1167 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1168 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1175 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W (AEP, UK, RU) |
| R1179 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1180 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1186 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1187 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1189 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1190 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1193 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W (E51) |
| R1193 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W (AUS) |
| R1193 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W (AEP, UK, RU, MX, SP, SP6, AR) |
| R1194 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W (AEP, UK, RU) |
| R1194 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W (SP, SP6) |
| R1194 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W (AR) |
| R1194 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W (E51, MX, AUS) |
| R1194 | 1-216-864-11 | SHORT CHIP | 0 (US, CND) | | |
| R1197 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1198 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1199 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1201 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1251 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/10W |
| R1252 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/10W |
| R1260 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1261 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1301 | 1-216-830-11 | METAL CHIP | 5.6K | 5% | 1/10W |
| R1302 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R1303 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R1304 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1305 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R1306 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R1307 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1308 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1309 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1310 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1311 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1312 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1313 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1314 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1315 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1316 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1318 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1352 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1355 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R1356 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1357 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R1358 | 1-216-854-11 | METAL CHIP | 560K | 5% | 1/10W |
| R1359 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1360 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1362 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1401 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1402 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1403 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1407 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1425 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1426 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1435 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1436 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1445 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1446 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1460 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1461 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1464 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1466 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1470 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1471 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1472 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1474 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1475 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1476 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1484 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1486 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1491 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1492 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1493 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1494 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1495 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1501 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1502 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1503 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1504 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1505 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1506 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1508 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1509 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1510 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1511 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1512 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1513 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1514 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1515 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R1517 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1518 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1519 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1520 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1521 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1522 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1523 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1524 | 1-216-864-11 | SHORT CHIP | 0 | | |
| R1525 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1526 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1527 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1528 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1531 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1532 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1533 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1534 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1535 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1536 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1537 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1538 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1539 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1540 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1541 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1542 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1543 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1544 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1545 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1546 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1547 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1548 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1549 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1550 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1551 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1552 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1553 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1554 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1555 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R1556 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R1570 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1571 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1572 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1573 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1574 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R1635 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R1636 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |

< VIBRATOR >

| | | |
|---|---|---|
| X1101 | 1-813-448-21 | PIEZOELECTRIC OSCILLATOR (24MHz) |
| X1301 | 1-795-126-21 | VIBRATOR, CRYSTAL (12.288MHz) |
| X1502 | 1-813-276-21 | QUARTZ CRYSTAL (13.9MHz) |

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## REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

| Ver. | Date | Description of Revision |
|---|---|---|
| 1.0 | 2005.02 | New |
| 1.1 | 2005.09 | Addition of the system name (HTP-82DWK) for use |
| 1.2 | 2006.04 | Addition of the SERVICE NOTE for NOTE ON REPLACEMENT POWER AMPLIFIER IC<br>SUPPLEMENT-1 : Change of DIGITAL board (SPM-06019) |
| | | Addition of Russian model |
| 1.3 | 2006.05 | Addition of Argentina model |
| | | Change of part number for IC1902 on DIGITAL board (ECN-ECB05468) |
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